



# **ATM Workshop & Trade Alerts**

**Presented by**

**Tomas Byron**



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## ◆ My background

- ◆ With a career spanning over 35 years, I began my journey as a professional trader in physical energy trading. Over time, I gained experience in derivatives and over-the-counter markets, gradually expanding my understanding of financial products, including options and derivatives. I had the opportunity to work as a lead trader for major global international energy companies and investment banks, where I navigated the complexities of the financial arena. Seeking new opportunities, I later transitioned into proprietary trading, using my accumulated insights to inform strategic financial decisions. Driven by a genuine interest in helping others navigate the financial landscape, I eventually founded an advisory financial service. My approach to trading and financial consultancy is grounded in a commitment to continuous improvement and learning from a wealth of experiences, with the goal of providing valuable guidance to those I serve.



# ✦ Tomas Byron's Workshop and Trade Alerts



- ✦ *ATM Weekly Options Strategy* **Workshop**
- ✦ *ATM Weekly Options Strategy* **Trade Alerts**
- ✦ <https://info.aeromir.com/workshops/2024/atm/>
  
- ✦ *Elephant Shield* **Trade Alerts**
- ✦ <https://info.aeromir.com/services/elephantshield/>





# The Core



- ✦ We trade based on statistics and probabilities
- ✦ Defined Risk and Short hold time (Closed the same day\*)
- ✦ Daily Option Expirations
- ✦ Simple to trade and low cost
- ✦ Positive Theta
- ✦ Profit Target 5-20% of debit paid
- ✦ IRA Eligible

\*When on shorter DTE .



# Dynamic ATM Time Spreads



- ◆ Front (Short) : 0,15 DTE (Days to Expiration)
- ◆ Back(Long) : 2,30 DTE
- ◆ DTE and Width Selection Based on Vols Spreads Analysis
- ◆ Strategies Used :
  - ◆ Calendars, Double Calendars
  - ◆ Diagonals, Double Diagonals
  - ◆ Straddle, Strangles, Verticals.



# Trading Approach and Philosophy



- ✦ Predicting futures prices or market direction is irrelevant, and unnecessary.
- ✦ Our job as traders is to REACT to the market .
- ✦ The ONLY thing we can control is the amount of RISK we are willing to accept
- ✦ In the market.





# Trading Approach and Philosophy



**Six Steps process to trade selection ("The Fund").**

- ✦ 1) Determine Market Status.
- ✦ 2) Analyze Strategies Statistical Performance in similar Market Regime.
- ✦ 3) Select Appropriate Strategies.
- ✦ 4) Execute the orders.
- ✦ 5) Dynamically monitor/adjust trades.
- ✦ 6) Exit the trades.



# Workshop



- ✦ The Workshop includes 4 Recorded Live Classes
- ✦ Class 1: Core Concepts using the tools and boring Stuff.(2:38Hours)
- ✦ Class 2: Trading the strategy(The edge) Trades selection .(3:45Hours)
  - ✦ Rules Guidelines (Entry, Adjustments, and Exit).
  - ✦ Examples and real trades (Start using the tools).
- ✦ Class 3: More Adjustments and Integration/other Strategies.(5:12Hours)
- ✦ Class 4: More Examples and Refining the Trades.(2:52Hours)



# Trading Tools



- ✦ Many Complimentary Microsoft Excel Spreadsheets
- ✦ customized spreadsheets offered to monitor and analyze trades, many documents and Tools .



# Trading Tools



- ✦
- ✦ TRADERS Mistakes VID
- ✦ ATM Weekly Options Slingshot VID
- ✦ ATM Weekly Options Strategy - Spread Sheet Walk Through VID
- ✦ Hedging a 30-Day Broken Wing Butterfly VID
- ✦ ATM Workshop - Video Part 1 VID
- ✦ ATM Workshop - Video Part 2 VID
- ✦ Financial Mathematics: Statistics - Properties of Distributions PDF
- ✦ Introduction to the Black-Scholes formula VID



# Trading Tools



- ✦
- ✦ Presentation "DERIVATIVES" Understanding options ,forwards and futures. PDF
- ✦ Derivate Spreads Evidence From SPX Options (Cao/Jacobs/Sai Ke) PDF
- ✦ ATM Workshop Guidelines. DOCX
- ✦ ATM Weekly Options Strategy Trade Alerts Review (FEB/MAY 2024). PDF
- ✦ OPTIONSMATRIX LINK SOFTWARE
- ✦ Excel analysis files from Tomas ZIP
- ✦ Power Point Slides Class#3 PDF
- ✦ Economics Surprises What really moves the markets PDF



# Trading Tools



- ✦
- ✦ ATM Weekly Options Strategy Class#1 PDF
- ✦ INDEX OPTIONS PDF
- ✦ Glossary of TERMS PDF
- ✦ EXCEL File : USE EXTRACT THE zip File And open the Excel file It will show you the Visual and the Adjustments of the trades in Discord, ZIP
- ✦ The lead-lag relation between VIX futures and SPX futures PDF
- ✦ Simple B&S GREEKS excel ..more than just basic Greeks.XLS



# Trading Tools



- ✦ Market Snip (Utility Tool) Needs TOS (THINKORSWIM) Running.XLS
- ✦ Options Models Lite XLS
- ✦ Options Radar Ver3.0 XLS
- ✦ Holiday\_FIX\_10W\_2022\_2023WOrKSHOP XLS
- ✦ Comparison between Heston model and Vanna-Volga method.(Forex) XLS





# Trading Tools



- ✦
- ✦ Lots & Millions (Dream Spreadsheet) (Class#3) XLS
- ✦ GARCHS&P500 XLS
- ✦ D.CALSTUDY1 XLS
- ✦ D.CAL STUDY EXAMPLE XLS
- ✦ OMEGA LIST EXAMPLE CALENDARS TEST XLS
- ✦ Test Worksheet XLS

✦





# Trading Tools



- ✦ CAL7-14-50EXAMPLE1 XLS
- ✦ HOLIDAY WEEK ANALYSIS EXAMPLE XLS
- ✦ TOS CHARTS            757.8 KB            DOCX
- ✦ Interactive Brokers : CREATING BASKET ORDERS IN TWS (1)VIDEO
- ✦ Interactive Brokers : CREATING BASKET ORDERS IN TWS (2)VIDEO
- ✦ "TRADING VOLATILITY" C.BENNETT New LINK PDF
- ✦ Measuring the Natural Rate of Interest LINK



# Member Home Workshop



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## ATM Weekly Options Strategy Workshop - Library

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   ▾ [Refresh](#)

### December 2024

| Date     | View                 | Duration | Views | Presenter | Description                         |
|----------|----------------------|----------|-------|-----------|-------------------------------------|
| 7 Dec 24 | <a href="#">View</a> |          | 18    | Tomas B   | TRADERS Mistakes (PASSWORD:ATM2025) |

### March 2024

| Date      | View                 | Duration | Views | Presenter | Description                  |
|-----------|----------------------|----------|-------|-----------|------------------------------|
| 22 Mar 24 | <a href="#">View</a> | 00:00:17 | 51    | Tomas B   | ATM Weekly Options Slingshot |

### February 2024

| Date      | View                 | Duration | Views | Presenter | Description  |
|-----------|----------------------|----------|-------|-----------|--|
| 10 Feb 24 | <a href="#">View</a> | 02:52:28 | 113   | Tomas B   | <b>ATM Weekly Options Strategy Workshop - Class #4</b><br>157.5 MB M4A audio file<br>508.9 MB MP4 video file<br>161.2 KB VTT closed caption file<br>1.6 KB Chat TXT<br>677.2 KB Presentation PDF<br>AI Summary |
| 4 Feb 24  | <a href="#">View</a> | 00:06:25 | 33    | Tomas B   | <b>ATM Weekly Options Strategy - Spread Sheet Walk Through</b>   |
| 4 Feb 24  | <a href="#">View</a> | 00:14:01 | 36    | Tomas B   | <b>ATM Workshop - Video Part 1</b>   |
| 4 Feb 24  | <a href="#">View</a> | 00:05:42 | 33    | Tomas B   | <b>ATM Workshop - Video Part 2</b>   |
| 3 Feb 24  | <a href="#">View</a> | 05:12:51 | 117   | Tomas B   | <b>ATM Weekly Options Strategy Workshop - Class #3</b>   |



# Member Home Workshop



| 3 Feb 24  | <a href="#">View</a> | 05:12:51 | 117   | Tomas B   | <b>ATM Weekly Options Strategy Workshop - Class #3</b>          |
|---|----------------------|----------|-------|-----------|---|
| <b>Meeting Links</b>  |                      |          |       |           |   |
| <a href="#">Jim Simmons video</a>                                   |                      |          |       |           |   |
| <a href="#">284.8 MB M4A audio file</a>                             |                      |          |       |           |   |
| <a href="#">934.6 MB MP4 video file</a>                             |                      |          |       |           |   |
| <a href="#">288.0 KB VTT closed caption file</a>                    |                      |          |       |           |   |
| <a href="#">6.8 KB Chat TXT</a>                                     |                      |          |       |           |   |
| <a href="#">AI Summary</a>  |                      |          |       |           |   |
| 2 Feb 24  | <a href="#">View</a> | 00:17:59 | 48    | Tomas B   | <b>Hedging a 30-Day Broken Wing Butterfly</b>                   |
| <b>January 2024</b>   |                      |          |       |           |   |
| Date  | View                 | Duration | Views | Presenter | Description   |
| 27 Jan 24   | <a href="#">View</a> | 02:34:34 | 129   | Tomas B   | <b>ATM Weekly Options Strategy Workshop - Class #2 - Part 1</b> |
| <b>Meeting Links</b>  |                      |          |       |           |   |
| <a href="#">Instructions for joining the Aeromir Discord Server</a> |                      |          |       |           |   |
| <a href="#">140.7 MB M4A audio file</a>                             |                      |          |       |           |   |
| <a href="#">401.7 MB MP4 video file</a>                             |                      |          |       |           |   |
| <a href="#">137.8 KB VTT closed caption file</a>                    |                      |          |       |           |   |
| <a href="#">1.0 KB Chat TXT</a>                                     |                      |          |       |           |   |
| <a href="#">4.7 MB PowerPoint Slides</a>                            |                      |          |       |           |   |
| <a href="#">AI Summary</a>  |                      |          |       |           |   |



# Member Home Workshop



|           |                      |          |     |         |   |
|-----------|----------------------|----------|-----|---------|---|
| 27 Jan 24 | <a href="#">View</a> | 01:14:29 | 124 | Tomas B | <b>ATM Weekly Options Strategy Workshop - Class #2 - Part 2</b><br>67.8 MB M4A audio file<br>252.0 MB MP4 video file<br>69.5 KB VTT closed caption file<br>0.7 KB Chat TXT        |
| 23 Jan 24 | <a href="#">View</a> |          | 38  | Tomas B | <b>Financial Mathematics: Statistics - Properties of Distributions</b>  |
| 20 Jan 24 | <a href="#">View</a> | 02:38:24 | 144 | Tomas B | <b>ATM Weekly Options Strategy Workshop - Class #1</b><br>144.2 MB M4A audio file<br>372.4 MB MP4 video file<br>139.0 KB VTT closed caption file<br>1.8 KB Chat TXT<br>AI Summary |
| 20 Jan 24 | <a href="#">View</a> | 00:10:23 | 33  | Tomas B | <b>Introduction to the Black-Scholes formula</b>  |



# ATM Weekly Options Strategy Workshop Documents

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| Description   | Size     | Type | Uploaded    | Download                 |
|---|----------|------|-------------|--------------------------|
| Presentation "DERIVATIVES" Understanding options ,forwards and futures.             | 548.0 KB | PDF  | 4 Dec 2024  | <a href="#">Download</a> |
| Derivate Spreads Evidence From SPX Options (Cao/Jacobs/Sai Ke)                      | 558.3 KB | PDF  | 19 Nov 2024 | <a href="#">Download</a> |
|   | 122.1 KB |      | 5 Sep 2024  | <a href="#">Download</a> |
| ATM Workshop Guidelines.  | 35.7 KB  | DOCX | 9 Aug 2024  | <a href="#">Download</a> |
| ATM Weekly Options Strategy Trade Alerts Review (FEB/MAY 2024).                     | 2.2 MB   | PDF  | 3 Jun 2024  | <a href="#">Download</a> |
| Tomas   |          |      |             |                          |
| OPTIONSMATRIX LINK  | 42.7 KB  | PDF  | 20 Feb 2024 | <a href="#">Download</a> |
| <b>Excel analysis files from Tomas</b>  | 13.8 MB  | ZIP  | 4 Feb 2024  | <a href="#">Download</a> |
| EXTRA MATERIAL CLASS#3<br>VIDEO SERIES 1 (CLASS#3)INTRO                             | 903.3 KB | MKV  | 4 Feb 2024  | <a href="#">Download</a> |
| Power Point Slides Class#3  | 1.3 MB   | PDF  | 4 Feb 2024  | <a href="#">Download</a> |
| Economics Surprises<br>What really moves the markets<br>Study<br>Maria Vieira, Ph.D | 2.1 MB   | PDF  | 1 Feb 2024  | <a href="#">Download</a> |



|   |         |      |             |                          |
|---|---------|------|-------------|--------------------------|
| ATM Weekly Options Strategy Class#1     | 3.8 MB  | PPTX | 20 Jan 2024 | <a href="#">Download</a> |
| The Fund*Let's Think(or)Swim Like pros. | 4.2 MB  | PPTX | 18 Jan 2024 | <a href="#">Download</a> |
| INDEX OPTIONS                           | 1.9 MB  | PDF  | 17 Jan 2024 | <a href="#">Download</a> |
| Glossary of TERMS                       | 25.9 KB | DOCX | 17 Jan 2024 | <a href="#">Download</a> |

## DISCORD LIVE SIMULATED TRADES COLLECTION

| Description   | Size   | Type | Uploaded   | Download                 |
|---|--------|------|------------|--------------------------|
| EXCEL File : USE EXTRACT THE zip File And open the Excel file It will show you the Visual and the Adjustments of the trades in Discord, | 3.7 MB |      | 2 Sep 2024 | <a href="#">Download</a> |
| Tomas   |        |      |            |                          |

## Journal of Financial Markets (VIX-SPX)

| Description  | Size   | Type | Uploaded    | Download                 |
|--|--------|------|-------------|--------------------------|
| <b>The lead-lag relation between VIX futures and SPX futures</b>   | 3.9 MB |      | 15 Feb 2024 | <a href="#">Download</a> |
| ? Christine Bangsgaard a , Thomas Kokholm a,b,* a Aarhus BSS, Aarhus University, Department of Economics and Business Economics, Denmark b Danish Finance Institute, Denmark |        |      |             |                          |
| SEMI-NERDY STUFF   |        |      |             |                          |



## Spreadsheets

| Description  | Size     | Type | Uploaded   | Download                 |
|--|----------|------|------------|--------------------------|
| Simple B&S GREEKS excel ..more than just basic Greeks.   | 21.3 KB  | XLSM | 5 Feb 2024 | <a href="#">Download</a> |
| Not so nerdy!  |          |      |            |                          |
| MarketSnip (Utility Tool) Needs TOS (THINKORSWIM) Running.                                       | 500.9 KB | XLSM | 5 Feb 2024 | <a href="#">Download</a> |
| Options Models Lite  | 316.5 KB | XLSM | 5 Feb 2024 | <a href="#">Download</a> |
| If you have problems accessing the ATM Workshop Member's files (DOCS).Try Log Out and Re-log in. |          |      |            |                          |
| Tomas  |          |      |            |                          |
| OptionsRadar Ver3.0  | 86.8 KB  | XLSM | 5 Feb 2024 | <a href="#">Download</a> |
| Holiday_FIX_10W_2022_2023WOrKSHOP  | 3.2 MB   | XLSX | 5 Feb 2024 | <a href="#">Download</a> |
| Comparison between Heston model and Vanna-Volga method.(Forex)                                   | 5.4 MB   | XLS  | 5 Feb 2024 | <a href="#">Download</a> |



|   |          |      |            |                          |
|---|----------|------|------------|--------------------------|
| Lots&Millions (Class#3)                             | 23.9 KB  | XLSX | 5 Feb 2024 | <a href="#">Download</a> |
| GARCHS&P500   | 597.3 KB | XLSX | 5 Feb 2024 | <a href="#">Download</a> |
| D.CALSTUDY1<br>D.CAL STUDY EXAMPLE                  | 691.9 KB | XLSX | 5 Feb 2024 | <a href="#">Download</a> |
| OMEGA LIST EXAMPLE CALENDARS TEST                   | 15.5 KB  | XLSX | 5 Feb 2024 | <a href="#">Download</a> |
| Test_Worksheet                                      | 33.0 KB  | XLS  | 5 Feb 2024 | <a href="#">Download</a> |
| CAL7-14-50EXAMPLE1<br>HOLIDAY WEEK ANALYSIS EXAMPLE | 132.6 KB | XLSX | 5 Feb 2024 | <a href="#">Download</a> |





thinkorswim

| Description | Size     | Type | Uploaded   | Download                 |
|-------------|----------|------|------------|--------------------------|
| TOS CHARTS  | 757.8 KB | DOCX | 5 Feb 2024 | <a href="#">Download</a> |

## Online Documents

| Title  | Updated                            | View                 |
|--|------------------------------------|----------------------|
| Interactive Brokers : CREATING BASKET ORDERS IN TWS (1)VIDEO | 3 Feb 2024 at 3:53:46 AM Eastern   | <a href="#">View</a> |
| Interactive Brokers : CREATING BASKET ORDERS IN TWS (2)VIDEO | 3 Feb 2024 at 4:00:35 AM Eastern   | <a href="#">View</a> |
| Trading Volatility Colin Bennett                             | 3 Feb 2024 at 6:29:25 PM Eastern   | <a href="#">View</a> |
| "TRADING VOLATILITY" C.BENNETT New LINK                      | 10 Feb 2024 at 1:31:24 AM Eastern  | <a href="#">View</a> |
| Measuring the Natural Rate of Interest                       | 17 Dec 2024 at 12:34:13 AM Eastern | <a href="#">View</a> |



# Tomas Byron's Workshop and Trade Alerts



VIDEO LINK

<https://youtu.be/STDcUVIOJlo>



# ATM Weekly Options Strategy Trade Alerts





# The Core



- ✦ We trade based on statistics and probabilities
- ✦ Defined Risk and Short hold time (Closed the same day\*)
- ✦ Daily Option Expirations
- ✦ Simple to trade and low cost
- ✦ Positive Theta
- ✦ Profit Target 5-20% of debit paid
- ✦ IRA Eligible

\* shorter DTEs.

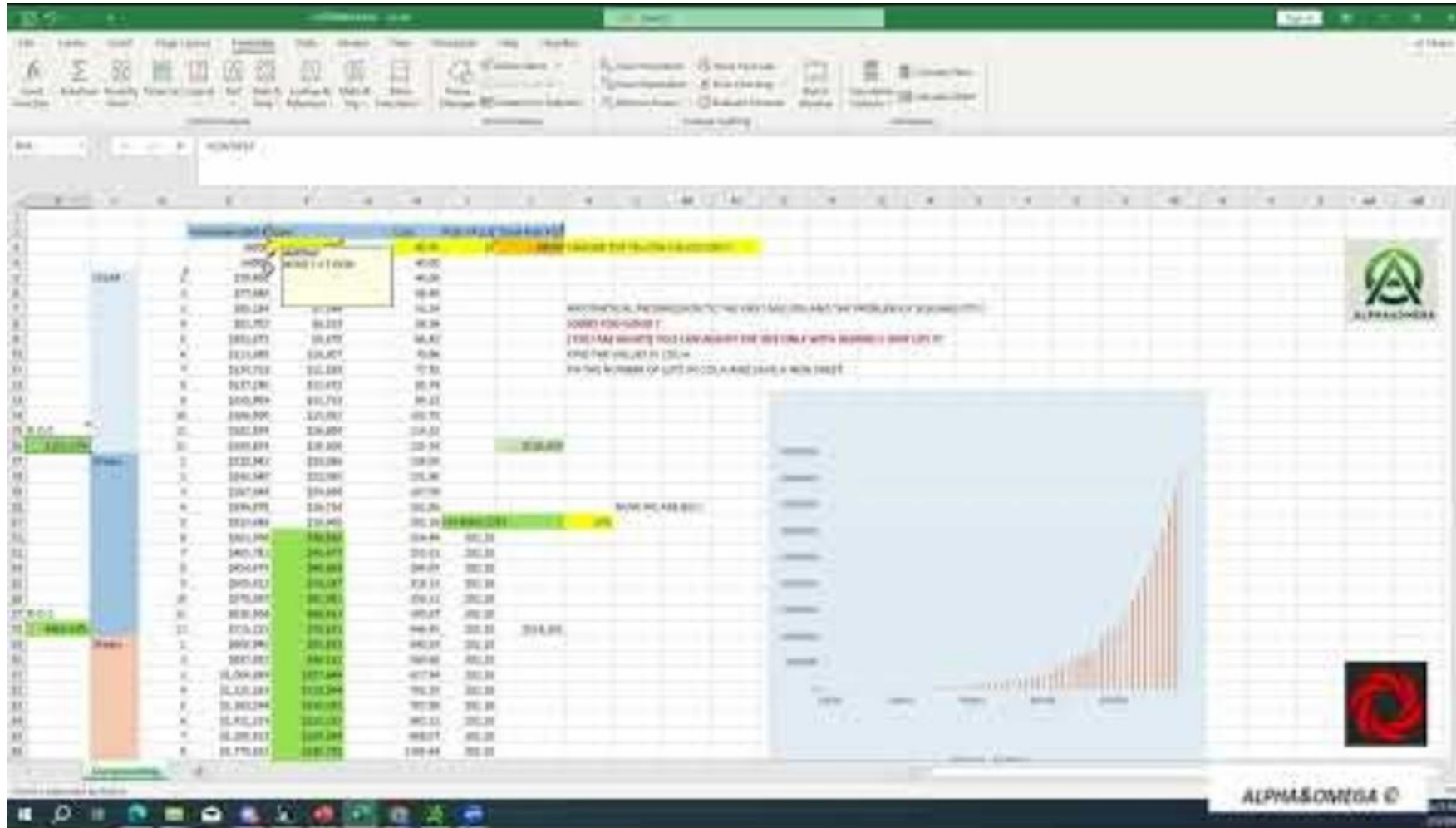


# Dynamic ATM Time Spreads



- ◆ Front (Short) : 0,1,2 DTE (Days to Expiration)
- ◆ Back(Long) : 2,3,4,5,6,7 DTE
- ◆ DTE and Width Selection Based on Vols Spreads Analysis
- ◆ Strategies Used :
  - ◆ Calendars, Double Calendars
  - ◆ Diagonals, Double Diagonals
  - ◆ Straddle, Strangles, Verticals.

# ✦ Road to One Million .....



Video Link

<https://youtu.be/-HfjV6AihVM>

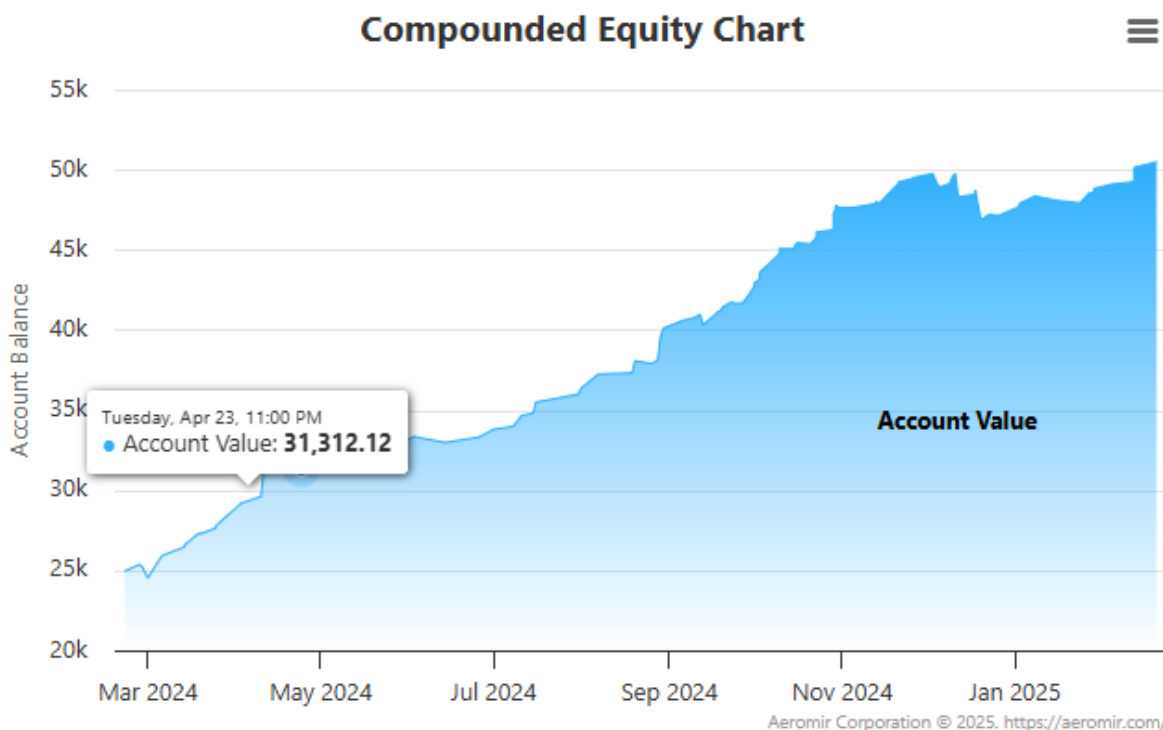




# ATM Weekly Strat.Trade Alerts



## Equity Growth Chart for Closed Trades



## Trade Performance

|                              |                  |
|------------------------------|------------------|
| Net Profit                   | \$17,911         |
| Net Profit Percent           | 71.64%           |
| Wins                         | 84 (80.8%)       |
| Losses                       | 20 (19.2%)       |
| Average profit               | \$272            |
| Average loss                 | (\$249)          |
| Max consecutive wins         | 11 (odds 10.5:1) |
| Max consecutive losses       | 2 (odds 27.0:1)  |
| Equity high value            | \$42,874         |
| Equity low value             | \$24,525         |
| Ending Equity                | \$42,874         |
| Maximum Draw Down Dollars    | \$1,456          |
| Maximum Draw Down %          | 3.43%            |
| Max Draw Down/Average Profit | 5.35             |
| Profit Factor ?              | 4.59             |
| Sortino Ratio ?              | 1.061            |
| Expectancy ?                 | 0.690            |
| Probability of Ruin          | 0.000000%        |

## Losing Streak Odds

| Losing Streak | Odds    | Losing Streak | Odds      | Losing Streak | Odds        |
|---------------|---------|---------------|-----------|---------------|-------------|
| 2             | 27.0:1  | 5             | 3,802:1   | 8             | 534,597:1   |
| 3             | 140.6:1 | 6             | 19,771:1  | 9             | 2,779,906:1 |
| 4             | 731.2:1 | 7             | 102,807:1 |               |             |



# Tomas Byron's Trade Alerts



## Trade History

☐ View by expiration month ☐ View by month closed ☒ View all trades

| Open       | Close      | DIT | Strategy        | Symbol | Description            | Account Size | Planned Capital | Maximum Margin | P/L              | Yield on Account | Yield on Capital | Yield on Margin |
|------------|------------|-----|-----------------|--------|------------------------|--------------|-----------------|----------------|------------------|------------------|------------------|-----------------|
| 02/18/2025 | 02/20/2025 | 2   | Double Calendar | SPX    | D.CalendarTR#111       | \$25,000     | \$1,500         | \$1,500        | \$175.00         | 0.70%            | 11.67%           | 11.67%          |
| 02/11/2025 | 02/12/2025 | 1   | BUT/BWB         | SPX    | TR#110                 | \$25,000     | \$1,200         | \$1,200        | \$80.00          | 0.32%            | 6.67%            | 6.67%           |
| 02/11/2025 | 02/12/2025 | 1   | BUT/BWB         | SPX    | TR#109                 | \$25,000     | \$550           | \$550          | \$100.00         | 0.40%            | 18.18%           | 18.18%          |
| 02/10/2025 | 02/12/2025 | 2   | BUT/BWB         | SPX    | TR#108                 | \$25,000     | \$1,000         | \$1,000        | \$350.00         | 1.40%            | 35.00%           | 35.00%          |
| 01/30/2025 | 02/04/2025 | 5   | COMBO           | SPX    | COMBO TR#106           | \$25,000     | \$2,500         | \$2,500        | \$135.00         | 0.54%            | 5.40%            | 5.40%           |
| 01/28/2025 | 01/29/2025 | 1   | BUT/BWB         | SPX    | Butt.Calendar Tr#105   | \$25,000     | \$1,000         | \$1,000        | \$54.00          | 0.22%            | 5.40%            | 5.40%           |
| 01/06/2025 | 01/29/2025 | 23  | Double Calendar | SPX    | Double CalendarTR#101  | \$25,000     | \$800           | \$3,300        | \$110.00         | 0.44%            | 13.75%           | 3.33%           |
| 12/30/2024 | 01/27/2025 | 28  | BUT/BWB         | SPX    | Butt.CalendarTr#99     | \$25,000     | \$1,200         | \$1,200        | \$305.00         | 1.22%            | 25.42%           | 25.42%          |
| 01/21/2025 | 01/24/2025 | 3   | Double Calendar | SPX    | Double Calendar TR#104 | \$25,000     | \$2,000         | \$2,800        | <b>\$-80.00</b>  | <b>-0.32%</b>    | <b>-4.00%</b>    | <b>-2.86%</b>   |
| 01/06/2025 | 01/16/2025 | 10  | Double Calendar | SPX    | Double CalendarTR#102  | \$25,000     | \$2,500         | \$2,400        | <b>\$-145.00</b> | <b>-0.58%</b>    | <b>-5.80%</b>    | <b>-6.04%</b>   |
| 01/07/2025 | 01/08/2025 | 1   | BUT/BWB         | SPX    | Double CalendarTr#103  | \$25,000     | \$2,700         |                | \$225.00         | 0.90%            | 8.33%            |                 |
| 12/12/2024 | 01/03/2025 | 22  | COMBO           | SPX    | COMBO#93               | \$25,000     | \$2,000         | \$3,500        | \$145.00         | 0.58%            | 7.25%            | 4.14%           |
| 12/31/2024 | 01/02/2025 | 2   | Double Calendar | SPX    | Double CalendarTr#100  | \$25,000     | \$2,000         |                | \$280.00         | 1.12%            | 14.00%           |                 |
| 12/26/2024 | 12/26/2024 | 0   | Double Calendar | SPX    | Double CalendarTR#98   | \$25,000     | \$2,800         |                | <b>\$-50.00</b>  | <b>-0.20%</b>    | <b>-1.79%</b>    |                 |





# Tomas Byron's Trade Alerts



|            |            |    |                 |     |                      |          |         |           |           |         |         |         |
|------------|------------|----|-----------------|-----|----------------------|----------|---------|-----------|-----------|---------|---------|---------|
| 12/23/2024 | 12/23/2024 | 0  | Double Calendar | SPX | Double CalendarTR#97 | \$25,000 | \$2,800 | \$180.00  | 0.72%     | 6.43%   |         |         |
| 12/20/2024 | 12/20/2024 | 0  | Double Calendar | SPX | Double CalendarTR#96 | \$25,000 | \$3,500 | \$-945.00 | -3.78%    | -27.00% |         |         |
| 12/17/2024 | 12/18/2024 | 1  | BUT/BWB         | SPX | Butt.CalendarTR#95   | \$25,000 | \$740   | \$73.00   | 0.29%     | 9.86%   |         |         |
| 12/13/2024 | 12/18/2024 | 5  | Double Calendar | SPX | Double CalendarTr#94 | \$25,000 | \$890   | \$135.00  | 0.54%     | 15.17%  |         |         |
| 11/11/2024 | 12/12/2024 | 31 | Double Calendar | SPX | Double Calendar#78   | \$25,000 | \$2,000 | \$3,500   | \$-710.00 | -2.84%  | -35.50% | -20.29% |
| 12/11/2024 | 12/11/2024 | 0  | Double Calendar | SPX | D.Calendar#92        | \$25,000 | \$1,650 | \$68.00   | 0.27%     | 4.12%   |         |         |
| 12/09/2024 | 12/10/2024 | 1  | Double Calendar | SPX | Double Calendar      | \$25,000 | \$1,700 | \$2,200   | \$235.00  | 0.94%   | 13.82%  | 10.68%  |
| 12/09/2024 | 12/09/2024 | 0  | Double Calendar | SPX | Double Calendar      | \$25,000 | \$2,500 | \$2,500   | \$98.00   | 0.39%   | 3.92%   | 3.92%   |
| 12/06/2024 | 12/06/2024 | 0  | Double Calendar | SPX | Double Calendar      | \$25,000 | \$1,500 | \$1,500   | \$-20.00  | -0.08%  | -1.33%  | -1.33%  |
| 11/29/2024 | 12/05/2024 | 6  | Double Calendar | SPX |                      | \$25,000 | \$3,000 | \$2,400   | \$-390.00 | -1.56%  | -13.00% | -16.25% |
| 12/03/2024 | 12/03/2024 | 0  | Calendar        | SPX | Calendar             | \$25,000 | \$1,080 | \$1,080   | \$125.00  | 0.50%   | 11.57%  | 11.57%  |
| 11/26/2024 | 11/26/2024 | 0  | Double Calendar | SPX | Double Calendar      | \$25,000 | \$2,870 | \$2,870   | \$100.00  | 0.40%   | 3.48%   | 3.48%   |
| 11/19/2024 | 11/26/2024 | 7  | Double Calendar | SPX | Double Calendar      | \$25,000 | \$3,000 | \$500     | \$30.00   | 0.12%   | 1.00%   | 6.00%   |



# Tomas Byron's Trade Alerts



| Trade | Opened      | Closed      | DIT | Description     | Symbol | Planned Capital | Maximum Margin | Current Margin | Profit/Loss | Yield on Max Margin | Yield on Planned Capital | Short Strike Delta | Position Delta | Updated (Eastern)       | View Details      |
|-------|-------------|-------------|-----|-----------------|--------|-----------------|----------------|----------------|-------------|---------------------|--------------------------|--------------------|----------------|-------------------------|-------------------|
| 80    | 20 Nov 2024 | 21 Nov 2024 | 1   | Double Calendar | SPX    | \$3,400         | \$3,280        |                | \$665.00    | +20.27%             | +19.56%                  |                    |                | 21 Nov 2024 at 11:59 AM | <a href="#">+</a> |
| 81    | 20 Nov 2024 | 21 Nov 2024 | 1   | Double Calendar | SPX    | \$1,800         | \$2,500        |                | \$50.00     | +2.00%              | +2.78%                   |                    |                | 21 Nov 2024 at 12:04 PM | <a href="#">+</a> |
| 79    | 14 Nov 2024 | 14 Nov 2024 | 0   | Double Calendar | SPX    | \$4,800         | \$4,800        |                | \$-70.00    | -1.46%              | -1.46%                   |                    |                | 15 Nov 2024 at 5:05 AM  | <a href="#">+</a> |
| 76    | 13 Nov 2024 | 13 Nov 2024 | 0   | Calendar        | SPX    | \$1,450         | \$1,450        |                | \$34.00     | +2.34%              | +2.34%                   |                    |                | 13 Nov 2024 at 1:19 PM  | <a href="#">+</a> |
| 77    | 11 Nov 2024 | 13 Nov 2024 | 2   | Double Calendar | SPX    | \$1,900         | \$1,850        |                | \$65.00     | +3.51%              | +3.42%                   |                    |                | 13 Nov 2024 at 3:00 PM  | <a href="#">+</a> |
| 78    | 11 Nov 2024 | OPEN        | 15  | Double Calendar | SPX    | \$2,000         | \$1,800        | \$1,800        | \$50.00     | +2.78%              | +2.50%                   | 0.00               | +1.50          | 21 Nov 2024 at 12:04 PM | <a href="#">+</a> |
| 75    | 11 Nov 2024 | 11 Nov 2024 | 0   | Calendar        | SPX    | \$2,240         | \$2,240        |                | \$93.00     | +4.15%              | +4.15%                   |                    |                | 11 Nov 2024 at 12:06 PM | <a href="#">+</a> |
| 74    | 6 Nov 2024  | 5 Nov 2024  | -1  | Double Calendar | SPX    | \$2,500         | \$2,500        |                | \$15.00     | +0.60%              | +0.60%                   |                    |                | 6 Nov 2024 at 6:40 AM   | <a href="#">+</a> |
| 73    | 31 Oct 2024 | 31 Oct 2024 | 0   | Double Calendar | SPX    | \$3,300         | \$3,300        |                | \$-80.00    | -2.42%              | -2.42%                   |                    |                | 1 Nov 2024 at 5:28 AM   | <a href="#">+</a> |
| 72    | 30 Oct 2024 | 30 Oct 2024 | 0   | Double Calendar | SPX    | \$3,500         | \$3,560        |                | \$310.00    | +8.71%              | +8.86%                   |                    |                | 30 Oct 2024 at 1:05 PM  | <a href="#">+</a> |
| 71    | 29 Oct 2024 | 29 Oct 2024 | 0   | Double Calendar | SPX    | \$3,300         | \$3,300        |                | \$75.00     | +2.27%              | +2.27%                   |                    |                | 30 Oct 2024 at 7:07 AM  | <a href="#">+</a> |
| 70    | 28 Oct 2024 | 29 Oct 2024 | 1   | Double Calendar | SPX    | \$4,000         | \$4,500        |                | \$510.00    | +11.33%             | +12.75%                  |                    |                | 30 Oct 2024 at 7:04 AM  | <a href="#">+</a> |
| 69    | 22 Oct 2024 | 23 Oct 2024 | 1   | D.DIAGONAL      | SPX    | \$1,700         | \$1,650        |                | \$225.00    | +13.64%             | +13.24%                  |                    |                | 23 Oct 2024 at 11:58 AM | <a href="#">+</a> |
| 68    | 21 Oct 2024 | 23 Oct 2024 | 2   | COMBO           | SPX    | \$2,800         | \$2,800        |                | \$180.00    | +6.43%              | +6.43%                   |                    |                | 23 Oct 2024 at 11:54 AM | <a href="#">+</a> |
| 67    | 16 Oct 2024 | 16 Oct 2024 | 0   | D.Diagonal      | SPX    | \$3,800         | \$3,800        |                | \$205.00    | +5.39%              | +5.39%                   |                    |                | 17 Oct 2024 at 2:56 AM  | <a href="#">+</a> |
| 66    | 14 Oct 2024 | 15 Oct 2024 | 1   | D.CALENDAR      | SPX    | \$2,800         | \$2,800        |                | \$5.00      | +0.18%              | +0.18%                   |                    |                | 17 Oct 2024 at 2:48 AM  | <a href="#">+</a> |
| 64    | 7 Oct 2024  | 10 Oct 2024 | 3   | COMBO           | SPX    | \$2,500         | \$2,500        |                | \$665.00    | +26.60%             | +26.60%                  |                    |                | 10 Oct 2024 at 11:49 AM | <a href="#">+</a> |
| 65    | 7 Oct 2024  | 21 Oct 2024 | 14  | COMBO           | SPX    | \$1,000         | \$1,545        |                | \$-40.00    | -2.59%              | -4.00%                   |                    |                | 21 Oct 2024 at 1:32 PM  | <a href="#">+</a> |
| 61    | 1 Oct 2024  | 1 Oct 2024  | 0   | Double Calendar | SPX    | \$2,800         | \$2,800        |                | \$190.00    | +6.79%              | +6.79%                   |                    |                | 1 Oct 2024 at 4:31 PM   | <a href="#">+</a> |
| 63    | 30 Sep 2024 | 3 Oct 2024  | 3   | COMBO           | SPX    | \$1,050         | \$1,050        |                | \$142.00    | +13.52%             | +13.52%                  |                    |                | 3 Oct 2024 at 4:40 PM   | <a href="#">+</a> |
| 59    | 27 Sep 2024 | 30 Sep 2024 | 3   | Double Calendar | SPX    | \$2,800         | \$2,800        |                | \$440.00    | +15.71%             | +15.71%                  |                    |                | 1 Oct 2024 at 4:06 AM   | <a href="#">+</a> |
| 60    | 27 Sep 2024 | 1 Oct 2024  | 4   | Calendar        | SPX    | \$1,800         | \$1,800        |                | \$112.00    | +6.22%              | +6.22%                   |                    |                | 1 Oct 2024 at 4:34 PM   | <a href="#">+</a> |
| 58    | 24 Sep 2024 | 24 Sep 2024 | 0   | Double Calendar | SPX    | \$1,800         | \$1,800        |                | \$-50.00    | -2.78%              | -2.78%                   |                    |                | 17 Oct 2024 at 2:35 AM  | <a href="#">+</a> |





# ✦ Tomas Byron's Trade Alerts



| Trade | Opened    | Closed    | DIT | Description | Symbol | Planned Capital | Maximum Margin | Current Margin | Profit/Loss | Yield on Max Margin | Yield on Planned Capital | Short Strike Delta | Position Delta | Updated (Eastern)       |
|-------|-----------|-----------|-----|-------------|--------|-----------------|----------------|----------------|-------------|---------------------|--------------------------|--------------------|----------------|-------------------------|
| 80    | 20-Nov-24 | 21-Nov-24 | 1   | Double      | SPX    | \$3,400         | \$3,280        |                | \$665.00    | 20.27%              | 19.56%                   |                    |                | 21 Nov 2024 at 11:59 AM |
| 81    | 20-Nov-24 | 21-Nov-24 | 1   | Double      | SPX    | \$1,800         | \$2,500        |                | \$50.00     | 2.00%               | 2.78%                    |                    |                | 21 Nov 2024 at 12:04 PM |
| 79    | 14-Nov-24 | 14-Nov-24 | 0   | Double      | SPX    | \$4,800         | \$4,800        |                | (\$70.00)   | -1.46%              | -1.46%                   |                    |                | 15 Nov 2024 at 5:05 AM  |
| 76    | 13-Nov-24 | 13-Nov-24 | 0   | Calenda     | SPX    | \$1,450         | \$1,450        |                | \$34.00     | 2.34%               | 2.34%                    |                    |                | 13 Nov 2024 at 1:19 PM  |
| 77    | 11-Nov-24 | 13-Nov-24 | 2   | Double      | SPX    | \$1,900         | \$1,850        |                | \$65.00     | 3.51%               | 3.42%                    |                    |                | 13 Nov 2024 at 3:00 PM  |
| 78    | 11-Nov-24 | OPEN      | 15  | Double      | SPX    | \$2,000         | \$1,800        | \$1,800        | \$50.00     | 2.78%               | 2.50%                    | 0                  | 1.5            | at 12:04 PM             |
| 75    | 11-Nov-24 | 11-Nov-24 | 0   | Calenda     | SPX    | \$2,240         | \$2,240        |                | \$93.00     | 4.15%               | 4.15%                    |                    |                | 11 Nov 2024 at 12:06 PM |
| 74    | 6-Nov-24  | 5-Nov-24  | -1  | Double      | SPX    | \$2,500         | \$2,500        |                | \$15.00     | 0.60%               | 0.60%                    |                    |                | 6 Nov 2024 at 6:40 AM   |
| 73    | 31-Oct-24 | 31-Oct-24 | 0   | Double      | SPX    | \$3,300         | \$3,300        |                | (\$80.00)   | -2.42%              | -2.42%                   |                    |                | 1 Nov 2024 at 5:28 AM   |
| 72    | 30-Oct-24 | 30-Oct-24 | 0   | Double      | SPX    | \$3,500         | \$3,560        |                | \$310.00    | 8.71%               | 8.86%                    |                    |                | 30 Oct 2024 at 1:05 PM  |
| 71    | 29-Oct-24 | 29-Oct-24 | 0   | Double      | SPX    | \$3,300         | \$3,300        |                | \$75.00     | 2.27%               | 2.27%                    |                    |                | 30 Oct 2024 at 7:07 AM  |
| 70    | 28-Oct-24 | 29-Oct-24 | 1   | Double      | SPX    | \$4,000         | \$4,500        |                | \$510.00    | 11.33%              | 12.75%                   |                    |                | 30 Oct 2024 at 7:04 AM  |
| 69    | 22-Oct-24 | 23-Oct-24 | 1   | D.DIAGC     | SPX    | \$1,700         | \$1,650        |                | \$225.00    | 13.64%              | 13.24%                   |                    |                | 23 Oct 2024 at 11:58 AM |
| 68    | 21-Oct-24 | 23-Oct-24 | 2   | COMBO       | SPX    | \$2,800         | \$2,800        |                | \$180.00    | 6.43%               | 6.43%                    |                    |                | 23 Oct 2024 at 11:54 AM |
| 67    | 16-Oct-24 | 16-Oct-24 | 0   | D.Diago     | SPX    | \$3,800         | \$3,800        |                | \$205.00    | 5.39%               | 5.39%                    |                    |                | 17 Oct 2024 at 2:56 AM  |
| 66    | 14-Oct-24 | 15-Oct-24 | 1   | D.CALEP     | SPX    | \$2,800         | \$2,800        |                | \$5.00      | 0.18%               | 0.18%                    |                    |                | 17 Oct 2024 at 2:48 AM  |
| 64    | 7-Oct-24  | 10-Oct-24 | 3   | COMBO       | SPX    | \$2,500         | \$2,500        |                | \$665.00    | 26.60%              | 26.60%                   |                    |                | 10 Oct 2024 at 11:49 AM |
| 65    | 7-Oct-24  | 21-Oct-24 | 14  | COMBO       | SPX    | \$1,000         | \$1,545        |                | (\$40.00)   | -2.59%              | -4.00%                   |                    |                | 21 Oct 2024 at 1:32 PM  |
| 61    | 1-Oct-24  | 1-Oct-24  | 0   | Double      | SPX    | \$2,800         | \$2,800        |                | \$190.00    | 6.79%               | 6.79%                    |                    |                | 1 Oct 2024 at 4:31 PM   |
| 63    | 30-Sep-24 | 3-Oct-24  | 3   | COMBO       | SPX    | \$1,050         | \$1,050        |                | \$142.00    | 13.52%              | 13.52%                   |                    |                | 3 Oct 2024 at 4:40 PM   |
| 59    | 27-Sep-24 | 30-Sep-24 | 3   | Double      | SPX    | \$2,800         | \$2,800        |                | \$440.00    | 15.71%              | 15.71%                   |                    |                | 1 Oct 2024 at 4:06 AM   |
| 60    | 27-Sep-24 | 1-Oct-24  | 4   | Calenda     | SPX    | \$1,800         | \$1,800        |                | \$112.00    | 6.22%               | 6.22%                    |                    |                | 1 Oct 2024 at 4:34 PM   |
| 58    | 24-Sep-24 | 24-Sep-24 | 0   | Double      | SPX    | \$1,800         | \$1,800        |                | (\$50.00)   | -2.78%              | -2.78%                   |                    |                | 17 Oct 2024 at 2:35 AM  |



# ◆ Tomas Byron's Trade Alerts



|    |           |           |    |          |     |         |         |                   |        |        |                         |
|----|-----------|-----------|----|----------|-----|---------|---------|-------------------|--------|--------|-------------------------|
| 56 | 24-Sep-24 | 10-Oct-24 | 16 | COMBO    | SPX | \$1,700 | \$2,850 | \$200.00<br>[+25] | 6.14%  | 10.29% | at 11:46 AM             |
| 57 | 23-Sep-24 | 23-Sep-24 | 0  | Double   | SPX | \$4,475 | \$4,475 | \$190.00          | 4.25%  | 4.25%  | 23 Sep 2024 at 5:15 PM  |
| 62 | 20-Sep-24 | 3-Oct-24  | 13 | COMBO    | SPX | \$1,500 | \$1,220 | \$247.00          | 20.25% | 16.47% | 3 Oct 2024 at 4:23 PM   |
| 54 | 19-Sep-24 | 19-Sep-24 | 0  | Double   | SPX | \$965   | \$965   | \$60.00           | 6.22%  | 6.22%  | 19 Sep 2024 at 1:23 PM  |
| 53 | 16-Sep-24 | 18-Sep-24 | 2  | Double   | SPX | \$3,000 | \$3,500 | \$480.00          | 13.71% | 16.00% | 19 Sep 2024 at 3:47 AM  |
| 55 | 16-Sep-24 | 20-Sep-24 | 4  | Butt.Cal | SPX | \$660   | \$1,500 | \$145.00          | 9.67%  | 21.97% | 20 Sep 2024 at 1:37 PM  |
| 52 | 13-Sep-24 | 13-Sep-24 | 0  | Double   | SPX | \$5,000 | \$4,700 | (\$410.00)        | -8.72% | -8.20% | 14 Sep 2024 at 4:37 AM  |
| 51 | 12-Sep-24 | 12-Sep-24 | 0  | Double   | SPX | \$2,300 | \$2,350 | \$137.00          | 5.83%  | 5.96%  | 12 Sep 2024 at 11:35 AM |
| 50 | 11-Sep-24 | 27-Sep-24 | 16 | BWB/15   | SPX | \$1,000 | \$1,000 | \$5.00            | 0.50%  | 0.50%  | 17 Oct 2024 at 2:34 AM  |
| 49 | 9-Sep-24  | 10-Sep-24 | 1  | COMBO    | SPX | \$2,000 | \$1,950 | \$100.00          | 5.13%  | 5.00%  | 10 Sep 2024 at 3:17 PM  |
| 48 | 6-Sep-24  | 20-Sep-24 | 14 | BWB/15   | SPX | \$900   | \$900   | \$5.00            | 0.56%  | 0.56%  | 17 Oct 2024 at 2:34 AM  |
| 46 | 4-Sep-24  | 5-Sep-24  | 1  | COMBO    | SPX | \$2,100 | \$2,100 | \$250.00          | 11.90% | 11.90% | 7 Sep 2024 at 5:35 AM   |
| 47 | 3-Sep-24  | 6-Sep-24  | 3  | BWB/15   | SPX | \$1,000 | \$1,000 | \$50.00           | 5.00%  | 5.00%  | 7 Sep 2024 at 5:34 AM   |
| 43 | 26-Aug-24 | 26-Aug-24 | 0  | Double   | SPX | \$6,000 | \$6,250 | (\$110.00)        | -1.76% | -1.83% | 27 Aug 2024 at 6:10 AM  |
| 44 | 26-Aug-24 | 28-Aug-24 | 2  | Double   | SPX | \$4,000 | \$3,675 | \$140.00          | 3.81%  | 3.50%  | 29 Aug 2024 at 11:38 AM |
| 45 | 26-Aug-24 | 29-Aug-24 | 3  | COMBO    | SPX | \$6,000 | \$6,750 | \$955.00          | 14.15% | 15.92% | 7 Sep 2024 at 5:30 AM   |
| 42 | 26-Aug-24 | 26-Aug-24 | 0  | Calenda  | SPX | \$1,250 | \$1,250 | \$5.00            | 0.40%  | 0.40%  | 27 Aug 2024 at 6:07 AM  |
| 41 | 22-Aug-24 | 30-Aug-24 | 8  | Double   | SPX | \$1,000 | \$805   | \$340.00          | 42.24% | 34.00% | 30 Aug 2024 at 3:15 PM  |
| 40 | 19-Aug-24 | 20-Aug-24 | 1  | Double   | SPX | \$6,650 | \$6,650 | \$505.00          | 7.59%  | 7.59%  | 20 Aug 2024 at 2:50 PM  |
| 39 | 19-Aug-24 | 19-Aug-24 | 0  | Calenda  | SPX | \$1,750 | \$1,740 | \$50.00           | 2.87%  | 2.86%  | 20 Aug 2024 at 2:46 PM  |
| 38 | 6-Aug-24  | 7-Aug-24  | 1  | Double   | SPX | \$8,075 | \$8,075 | \$600.00          | 7.43%  | 7.43%  | 8 Aug 2024 at 10:00 AM  |
| 37 | 1-Aug-24  | 1-Aug-24  | 0  | Double   | SPX | \$5,600 | \$5,600 | \$265.00          | 4.73%  | 4.73%  | 1 Aug 2024 at 11:24 AM  |





# ◆ Tomas Byron's Trade Alerts



|    |           |           |    |          |     |          |          |                   |         |         |                         |
|----|-----------|-----------|----|----------|-----|----------|----------|-------------------|---------|---------|-------------------------|
| 36 | 29-Jul-24 | 31-Jul-24 | 2  | Calenda  | SPX | \$860    | \$855    | \$350.00          | 40.94%  | 40.70%  | 31 Jul 2024 at 10:42 AM |
| 35 | 15-Jul-24 | 16-Jul-24 | 1  | Double   | SPX | \$6,000  | \$5,000  | \$505.00          | 10.10%  | 8.42%   | 16 Jul 2024 at 1:06 PM  |
| 34 | 15-Jul-24 | 15-Jul-24 | 0  |          | SPX | \$4,000  | \$4,000  | \$90.00           | 2.25%   | 2.25%   | 15 Jul 2024 at 1:29 PM  |
| 32 | 8-Jul-24  | 8-Jul-24  | 0  | Double   | SPX | \$6,500  | \$6,500  | \$140.00          | 2.15%   | 2.15%   | 8 Jul 2024 at 11:37 AM  |
| 33 | 8-Jul-24  | 11-Jul-24 | 3  | Double   | SPX | \$8,000  | \$7,000  | \$500.00          | 7.14%   | 6.25%   | 11 Jul 2024 at 12:11 PM |
| 31 | 1-Jul-24  | 1-Jul-24  | 0  |          | SPX | \$4,500  | \$4,500  | \$365.00          | 8.11%   | 8.11%   | 17 Oct 2024 at 2:33 AM  |
| 30 | 25-Jun-24 | 26-Jun-24 | 1  |          | SPX | \$4,500  | \$4,250  | \$255.00          | 6.00%   | 5.67%   | 17 Oct 2024 at 2:32 AM  |
| 29 | 3-Jun-24  | 14-Jun-24 | 11 | Double   | SPX | \$1,100  | \$1,900  | (\$275.00)        | -14.47% | -25.00% | 14 Jun 2024 at 1:55 PM  |
| 27 | 28-May-24 | 31-May-24 | 3  | Double   | SPX | \$3,600  | \$3,500  | \$235.00          | 6.71%   | 6.53%   | 17 Oct 2024 at 2:32 AM  |
| 28 | 28-May-24 | 3-Jun-24  | 6  | Butt.Cal | SPX | \$1,300  | \$1,290  | \$217.00<br>[+12] | 15.89%  | 15.77%  | at 10:50 AM             |
| 26 | 28-May-24 | 28-May-24 | 0  |          | SPX | \$4,000  | \$3,500  | \$90.00           | 2.57%   | 2.25%   | 17 Oct 2024 at 2:31 AM  |
| 25 | 21-May-24 | 23-May-24 | 2  |          | SPX | \$1,400  | \$1,400  | \$420.00          | 30.00%  | 30.00%  | 17 Oct 2024 at 2:30 AM  |
| 24 | 13-May-24 | 14-May-24 | 1  | Double   | SPX | \$6,000  | \$5,500  | \$140.00          | 2.55%   | 2.33%   | 14 May 2024 at 12:08 PM |
| 23 | 6-May-24  | 6-May-24  | 0  | Butt.Cal | SPX | \$3,000  | \$2,380  | \$430.00          | 18.07%  | 14.33%  | 25 May 2024 at 2:33 PM  |
| 22 | 2-May-24  | 2-May-24  | 0  |          | SPX | \$4,500  | \$4,500  | \$180.00          | 4.00%   | 4.00%   | 5 May 2024 at 4:16 AM   |
| 21 | 29-Apr-24 | 1-May-24  | 2  |          | SPX | \$3,500  | \$4,000  | (\$126.00)        | -3.15%  | -3.60%  | 5 May 2024 at 4:13 AM   |
| 19 | 22-Apr-24 | 24-Apr-24 | 2  | Double   | SPX | \$6,000  | \$6,000  | \$90.00           | 1.50%   | 1.50%   | 26 Apr 2024 at 1:00 PM  |
| 18 | 21-Apr-24 | 23-Apr-24 | 2  | Butt.Cal | SPX | \$5,000  | \$4,000  | (\$590.00)        | -14.75% | -11.80% | 25 May 2024 at 2:30 PM  |
| 17 | 17-Apr-24 | 18-Apr-24 | 1  | Double   | SPX | \$9,000  | \$9,670  | \$604.00          | 6.25%   | 6.71%   | 18 Apr 2024 at 1:01 PM  |
| 14 | 8-Apr-24  | 11-Apr-24 | 3  | Double   | SPX | \$6,000  | \$6,000  | \$1,355.00        | 22.58%  | 22.58%  | 15 Apr 2024 at 1:26 PM  |
| 10 | 4-Apr-24  | 10-Apr-24 | 6  | Butt.Cal | SPX | \$710    | \$800    | \$358.00          | 44.75%  | 50.42%  | 16 Apr 2024 at 2:43 AM  |
| 13 | 1-Apr-24  | 3-Apr-24  | 2  |          | SPX | \$7,000  | \$7,500  | \$1,285.00        | 17.13%  | 18.36%  | 16 Apr 2024 at 2:27 AM  |
| 12 | 25-Mar-24 | 25-Mar-24 | 0  | Double   | SPX | \$13,000 | \$12,425 | \$310.00          | 2.49%   | 2.38%   | 25 Mar 2024 at 11:50 AM |
| 11 | 24-Mar-24 | 25-Mar-24 | 1  |          | SPX | \$4,500  | \$4,350  | \$110.00          | 2.53%   | 2.44%   | 25 May 2024 at 2:29 PM  |



# ✦ Tomas Byron's Trade Alerts

|    |    |           |           |       |          |     |          |          |            |         |         |                         |
|----|----|-----------|-----------|-------|----------|-----|----------|----------|------------|---------|---------|-------------------------|
| 73 | 11 | 24-Mar-24 | 25-Mar-24 | 1     |          | SPX | \$4,500  | \$4,350  | \$110.00   | 2.53%   | 2.44%   | 25 May 2024 at 2:29 PM  |
| 74 | 9  | 19-Mar-24 | 20-Mar-24 | 1     | TRADE (  | SPX | \$8,000  | \$7,025  | (\$5.00)   | -0.07%  | -0.06%  | 23 Mar 2024 at 11:58 AM |
| 75 | 8  | 18-Mar-24 | 19-Mar-24 | 1     |          | SPX | \$3,000  | \$2,650  | \$685.00   | 25.85%  | 22.83%  | 25 May 2024 at 2:32 PM  |
| 76 | 7  | 13-Mar-24 | 14-Mar-24 | 1     | Double   | SPX | \$5,000  | \$3,650  | \$535.00   | 14.66%  | 10.70%  | 22 Mar 2024 at 1:52 PM  |
| 77 | 6  | 5-Mar-24  | 6-Mar-24  | 1     | Double   | SPX | \$15,000 | \$14,000 | \$1,410.00 | 10.07%  | 9.40%   | 22 Mar 2024 at 1:53 PM  |
| 78 | 5  | 1-Mar-24  | 1-Mar-24  | 0     |          | SPX | \$6,000  | \$5,700  | (\$710.00) | -12.46% | -11.83% | 22 Mar 2024 at 1:53 PM  |
| 79 | 4  | 28-Feb-24 | 28-Feb-24 | 0     | Double   | SPX | \$4,500  | \$4,500  | (\$115.00) | -2.56%  | -2.56%  | 22 Mar 2024 at 1:54 PM  |
| 80 | 3  | 26-Feb-24 | 27-Feb-24 | 1     | Double   | SPX | \$4,000  | \$2,700  | \$405.00   | 15.00%  | 10.13%  | 22 Mar 2024 at 1:54 PM  |
| 81 | 2  | 22-Feb-24 | 22-Feb-24 | 0     | Double   | SPX | \$4,000  | \$3,970  | (\$55.00)  | -1.39%  | -1.38%  | 22 Mar 2024 at 1:55 PM  |
| 82 | 1  | 21-Feb-24 | 14-Mar-24 | 22    | Butt.Cal | SPX | \$3,000  | \$2,265  | \$110.00   | 4.86%   | 3.67%   | 16 Apr 2024 at 2:29 AM  |
| 83 |    |           |           |       |          |     |          |          |            |         |         |                         |
| 84 |    |           | AVERAGE   | 2.705 |          |     |          | \$3,680  | \$17,298   |         | 7.27%   |                         |
| 85 |    |           | MEDIAN    | 1.00  |          |     |          |          |            |         |         |                         |
| 86 |    |           |           |       |          |     |          |          |            |         |         |                         |
| 87 |    |           |           |       |          |     |          |          | 470.10%    |         |         |                         |
| 88 |    |           |           |       |          |     |          |          |            |         |         |                         |

AVERAGE DIT 2.70 /MAX RISK\* 3.680

R.O.R\* 470% !





# ESOS Strategy Trade Alerts



- ✦ **The Elephant Shield is a swing trading option strategy and stays in trades for several days to a few weeks. Emphasis is keeping risk low with healthy returns.**





# ESOS Strategy Trade Alerts

- ◆ The ESOS Trade Alerts - What's included
- ◆ Core Concepts and fundamentals
- ◆ General Principles.
- ◆ Tour of the ESOS subscriber page and tools



# ESOS



## TRADE ALERTS

- ✦ The Service includes Introduction videos to get you started
- ✦ Subjects:
  - ✦ Basic Concepts of some of the strategies used.
  - ✦ Core Concepts.
  - ✦ Rules Guidelines (Entry, Adjustments(PRA)\*, and Exit).
  - ✦ Examples and real trades.
  - ✦ Additional Adjustments and Integration with other Strategies.
- ✦ \* Proprietary Risk Adjustments



# Trading Tools



- ✦ **OPTIONS RADAR**/Microsoft Excel Spreadsheets\*.
- ✦ **OPTIONS MATRIX**  /customized spreadsheets\* to monitor and analyze the trades.\*\*\*
- ✦ Placing Orders: Thinkorswim(TOS). (Video)
- ✦ Placing Orders: Interactive Brokers. (Video +Excel Spreadsheet).(EXTRA)@
- ✦ Several Step-by-Step examples of trades in up, down and sideways markets.
- ✦ Historical performance reports and metrics of the strategy in Excel.\*\*
- ✦ The Fund Let's Think(or Swim) Like pros. (Trading Stocks and Index Options).
  
- ✦ \*(1Year Usage).
- ✦ \*\*(From OptionOmega).
- ✦ \*\*\* (Live Data From TOS).
- ✦  @ BASKET ORDER TRADER 200 \$/1 YEAR Usage .



# The Core



- ✦ We trade based on statistics and probabilities
- ✦ Defined Risk and Medium hold time 7/25Days.
- ✦ Monthly Alerts 4 to 8 .
- ✦ Daily Updates and planning notes (Slack).
- ✦ Simple to trade, fewer adjustments and low cost.
- ✦ Positive Theta/Flat Delta/Vega.
- ✦ Profit Target 3-30% of debit paid.
- ✦ Simple Risk Management.
- ✦ IRA Eligible



# The Core



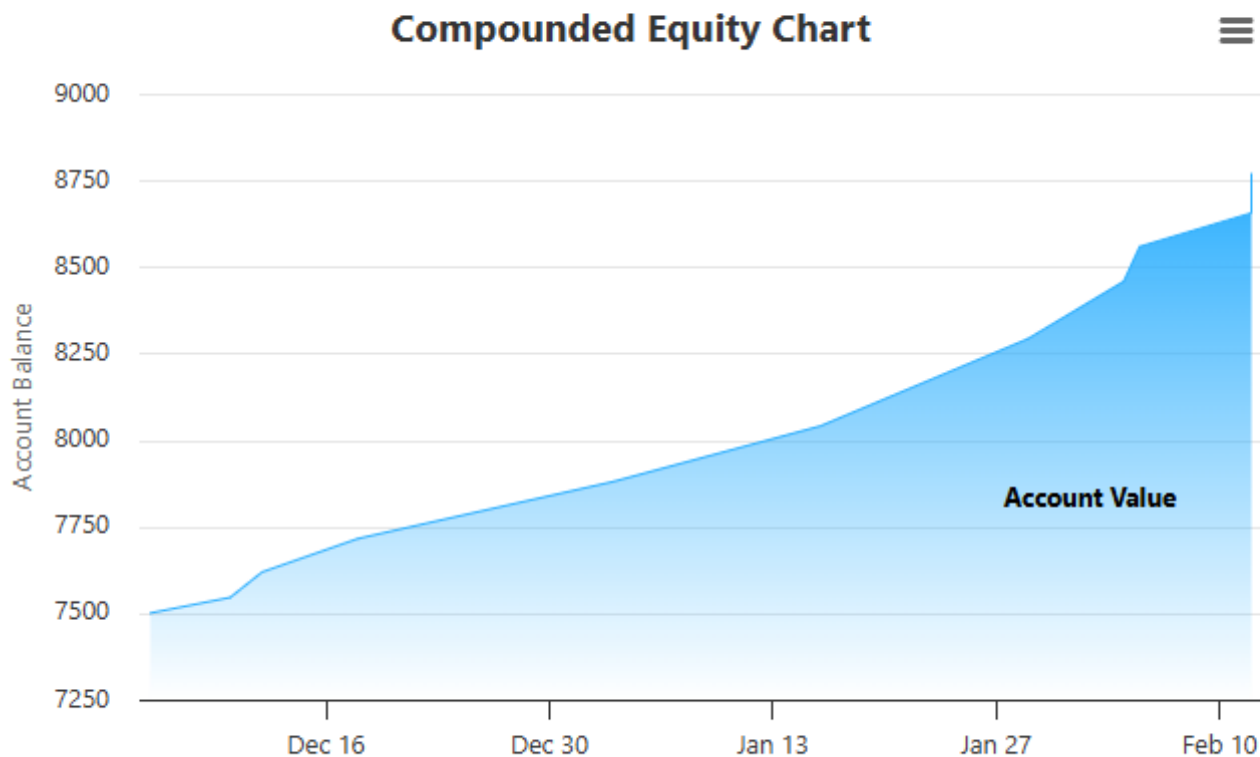
- ✦ We use SPX(W) options\*
- ✦ Trade Alerts selections marked at Entry as integrated (Portfolio), or independent.
- ✦ The minimum Target and Risk classification stated at Entry.
- ✦ Advance notice of new possible Trade Alerts.
- ✦ \*We could use Indices (RUT,VIX,Etc.)and liquid Stocks on rare occasions ,mostly for Hedging.



# Elephant Shield Trade Alerts



## Equity Growth Chart for Closed Trades



Aeromir Corporation © 2025. <https://aeromir.com/>

## Trade Performance

|                              |                 |
|------------------------------|-----------------|
| Net Profit                   | \$1,185         |
| Net Profit Percent           | 15.80%          |
| Wins                         | 10 (100.0%)     |
| Losses                       | 0 (0.0%)        |
| Average profit               | \$119           |
| Average loss                 | \$0             |
| Max consecutive wins         | 10 (odds 1.0:1) |
| Max consecutive losses       | 0               |
| Equity high value            | \$8,685         |
| Equity low value             | \$7,500         |
| Ending Equity                | \$8,685         |
| Maximum Draw Down %          | 0.00%           |
| Max Draw Down/Average Profit | 0.00            |



# Elephant Shield Trade Alerts



## Elephant Shield Trade Alerts - Positions

[Member Home](#) > [Elephant Shield Trade Alerts Home](#) > Elephant Shield Trade Alerts - Positions

| Trade | Opened      | Closed      | DIT | Description         | Symbol | Planned Capital | Maximum Margin | Current Margin | Profit/Loss | Yield on Max Margin | Yield on Planned Capital | Short Strike Delta | Position Delta | Updated (Eastern)       | View Details |
|-------|-------------|-------------|-----|---------------------|--------|-----------------|----------------|----------------|-------------|---------------------|--------------------------|--------------------|----------------|-------------------------|--------------|
| 9     | 11 Feb 2025 | 12 Feb 2025 | 1   | TR#11               | SPX    | \$1,200         | \$1,200        |                | \$85.00     | +7.08%              | +7.08%                   |                    |                | 12 Feb 2025 at 11:26 AM | +            |
| 8     | 11 Feb 2025 | 12 Feb 2025 | 1   | TR#10               | SPX    | \$550           | \$550          |                | \$100.00    | +18.18%             | +18.18%                  |                    |                | 12 Feb 2025 at 11:22 AM | +            |
| 7     | 30 Jan 2025 | 4 Feb 2025  | 5   | Butt.Calendar TR#8  | SPX    | \$2,000         | \$2,000        |                | \$150.00    | +7.50%              | +7.50%                   |                    |                | 5 Feb 2025 at 11:21 AM  | +            |
| 6     | 23 Jan 2025 | 5 Feb 2025  | 13  | Calendar TR#7       | SPX    | \$355           | \$355          |                | \$89.00     | +25.07%             | +25.07%                  |                    |                | 5 Feb 2025 at 11:06 AM  | +            |
| 5     | 6 Jan 2025  | 29 Jan 2025 | 23  | Double CalendarTR#6 | SPX    | \$1,600         | \$3,500        |                | \$235.00    | +6.71%              | +14.69%                  |                    |                | 29 Jan 2025 at 1:53 PM  | +            |
| 4     | 30 Dec 2024 | 16 Jan 2025 | 17  | Butt.CalendarTR#5   | SPX    | \$1,150         | \$1,150        |                | \$153.00    | +13.30%             | +13.30%                  |                    |                | 16 Jan 2025 at 1:27 PM  | +            |
| 3     | 14 Dec 2024 | 3 Jan 2025  | 20  | BWB/+20DTETr#4      | SPX    | \$2,000         | \$2,000        |                | \$160.00    | +8.00%              | +8.00%                   |                    |                | 11 Jan 2025 at 2:17 PM  | +            |
| 2     | 5 Dec 2024  | 18 Dec 2024 | 13  | Double CalendarTr#3 | SPX    | \$930           | \$930          |                | \$95.00     | +10.22%             | +10.22%                  |                    |                | 11 Jan 2025 at 2:17 PM  | +            |
|       | 5 Dec 2024  | 10 Dec 2024 | 5   | Double CalendarTr#2 | SPX    | \$550           | \$800          |                | \$45.00     | +5.63%              | +8.18%                   |                    |                | 14 Dec 2024 at 6:53 AM  | +            |
| 1     | 4 Dec 2024  | 12 Dec 2024 | 8   | Calendar Tr#1       | SPX    | \$400           | \$400          |                | \$73.00     | +18.25%             | +18.25%                  |                    |                | 11 Jan 2025 at 2:17 PM  | +            |



# Trading Approach and Philosophy



- ✦ “If you want to have a better performance than the crowd, you must do things differently from the crowd.” Sir John Templeton
  - ✦ Learn to abandon the idea of predicting.
  - ✦ Move to thinking in terms of probability (outcomes).
  - ✦ Minimal recommended Capital (7500\$)\*but scalable.
  - ✦ Always adapting to Market Conditions ,with minimal adjustments.
- 
- ✦ \* Pattern Day Trader (PDT) rule trading Option Spreads





# ESOS Spreads



- ◆ Front (Short) : 7,10,15 DTE. (Days to Expiration)
- ◆ Back(Long) : 10,35 DTE.
- ◆ DTE and Width Selection Based on Vols Spreads Analysis
- ◆ Strategies Used :
  - ◆ Calendars, Double Calendars.
  - ◆ Diagonals, Double Diagonals.
  - ◆ Butterflies, BWB\*, Verticals. \*(Broken Wings Butterfly).
  - ◆ Proprietary Risk Adjustments (PRA).



# Service Approach and Philosophy



✦ The approach we've chosen is to share the core of our strategies, giving subscribers a clear, practical way to implement them, while keeping certain key nuances and fine-tuning aspects partly undisclosed. This allows subscribers to benefit from professional-grade trade alerts and gradually learn the essence of a successful strategy, without putting the trader at significant risk of their methods being replicated or overused.



# Service Approach and Philosophy



✦ By withholding certain proprietary details, we maintain the integrity and uniqueness of our strategies, while still offering retail traders a meaningful opportunity to learn and grow. This method strikes a balance between providing value and safeguarding the professional's intellectual property. **Over time, subscribers will develop a deeper understanding of how these strategies work, empowering them to make informed trading decisions while respecting the intellectual craftsmanship behind the original approach.**



# Trading Approach and Philosophy



- ✦ Predicting futures prices or market direction is irrelevant and unnecessary.
- ✦ Our job as traders is to REACT to the market .
- ✦ The ONLY thing we can control is the amount of RISK we are willing to accept
- ✦ In the market .
- ✦ **Six Steps process to trade selection:**
  - ✦ 1)We analyze the Market Status.
  - ✦ 2)Select Strategies and Statistical Performance in similar Market Regime.
  - ✦ 3)Select Appropriate Strategies.



# Trading Approach and Philosophy



- ✦ 4) You get informed Daily of possible pending Alerts.\*
- ✦ 5) Trade Alerts in real time (Slack/Email\*).
- ✦ 6) Dynamically monitor/adjust trades if needed.
- ✦ 7) Alerts with clear Exit targets and GTC Levels.
- ✦ We will be monitoring existing trade alerts and the opportunities for new ones. You don't have to sit in front of the computer all day.
- ✦ **We will do it for you!**



# Trading Approach and Philosophy





## SPX Options and Time Decay

### ✦ SPX Options

✦ SPX options are European-style, cash-settled options based on the **S&P 500 Index**. These options allow traders to speculate on the direction of the market or hedge positions without the risk of early assignment, as they can only be exercised at expiration. Because they are based on a broad market index, they are widely used for market exposure, particularly for short-term strategies like those focused on **Zero DTE to 30DTE** options.

### ✦ Key Features of SPX Options:

- **European-style:** SPX options can only be exercised at expiration, which prevents early assignment risk.
- **Cash-settled:** No actual transfer of shares occurs. The difference between the strike price and the index's final settlement price is settled in cash.
- **Expirations:** SPX offers expirations as frequent as **0DTE (same day)**, allowing for quick trading strategies focused on time decay and volatility.





# Trading Approach and Philosophy

## Trade Alert selection



Market Status.





# Trading Approach and Philosophy

## Trade Alert selection



- The market-implied volatility of equities tends to exceed the subsequent realized volatility. This risk premium can be efficiently collected by systematically shorting variance swaps on equity indexes.
- With traditional income sources such as bonds and credit challenged by central banks' tightening and low interest rates, the post-pandemic elevated volatility risk premium in equities presents an attractive opportunity to generate yield in a portfolio, in our view.
- Investors should be aware of the negative skewness in returns of short-volatility strategies. To mitigate this risk, we prefer strategies that systematically sell short-dated variance swaps on the S&P 500, ideally using a variance replication approach.



# Trading Approach and Philosophy

## Trade Alert selection



### **The volatility risk premium**

The volatility risk premium (VRP) can be estimated by looking at the difference between the market-implied volatility and the effective volatility realized by the underlying asset during the observation period. Since a good approximation of the implied volatility can be extracted from the price of options, we can interpret a positive VRP as a sort of compensation that option sellers require in exchange for providing insurance against moves in the asset price. Ultimately, it is driven by the demand for options from investors who cannot afford large portfolio drawdowns and therefore are forced to buy hedges even if priced at a premium.

Historically, the VRP of the S&P 500 has been, on average, positive by about 4–5 volatility points. The VRP is measured using the VIX index as a proxy for 1-month implied volatility and the actual volatility of the index, or standard deviation of the daily price returns realized during the subsequent month



# Trading Approach and Philosophy

## Trade Alert selection



### ✦ The volatility risk premium

✦ Interestingly, markets' estimates of future volatility tend to trade higher than subsequent realized volatility. This feature is observed not just in stock markets, but has been empirically demonstrated across multiple asset classes. Investors can gain exposure to this premium to generate income from selling volatility. **An insurance premium...**

✦ Options allow investors to protect against large moves in the price of an asset. As consequence, a positive volatility risk premium (VRP), i.e. higher implied versus realized volatility, can be interpreted as the compensation that option sellers require to provide insurance against moves in the asset price. They tend to trade at a premium, similar to standard insurance contracts. Besides this more fundamental justification, the VRP is impacted by other supply/demand imbalances. For example, hedging demand from institutional clients and insurance companies tends to lift the implied volatility of OTM puts of equity indexes. Structured products desks targeting the retail market can also provide liquidity in specific markets.



# Trading Approach and Philosophy

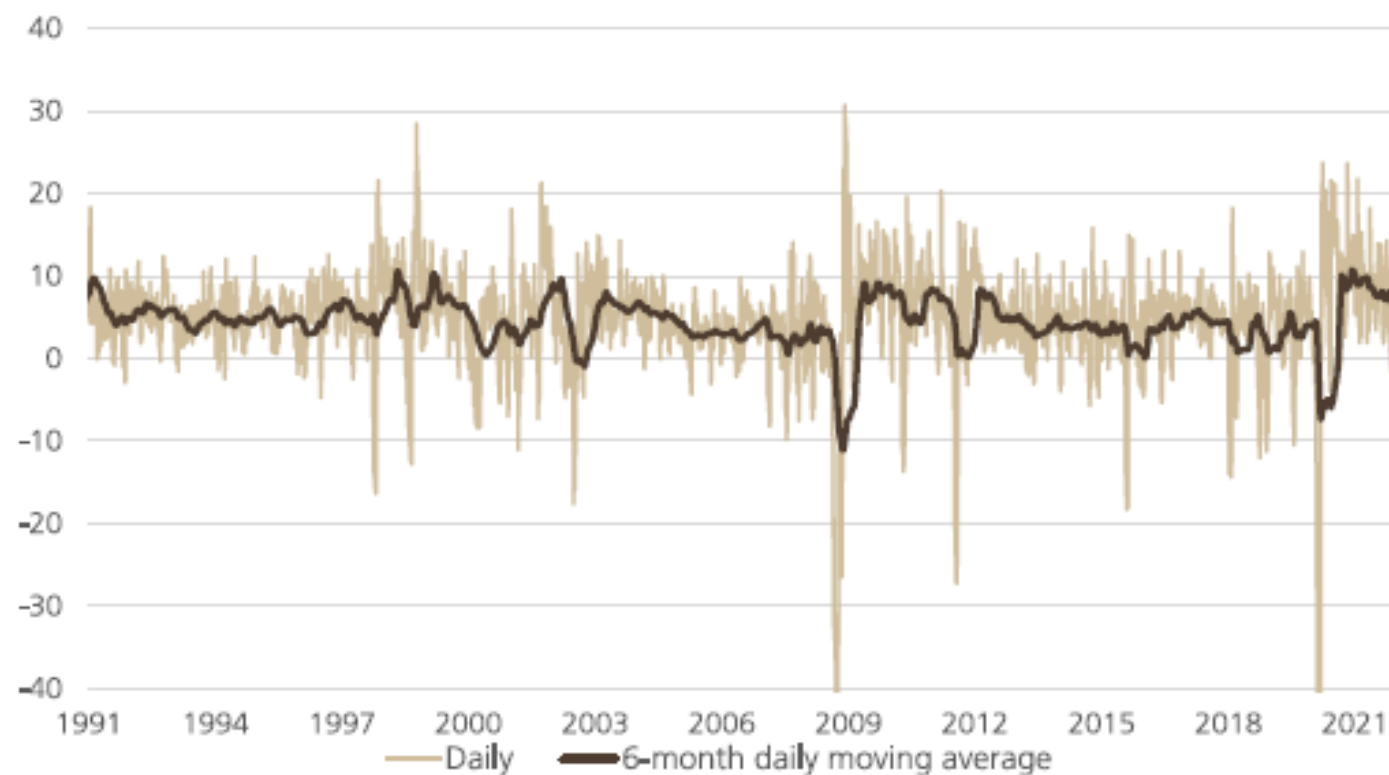
## Trade Alert selection



- ✦ Ultimately, strategies that write (or sell) options can harvest this premium and, similar to other carry strategies that exploit other risk premia, they have tended to generate a positive income over the long term.
- ✦ and a measure of investors' risk aversion
- ✦ In equity markets, investors can hedge their portfolios with put options on selected stock indexes. They are willing to pay a premium for downside protection and ultimately to avoid financial loss. Due to the behavioral bias of market participants, which overstates the probability of a market correction, the equity VRP can thus be interpreted as a measure of the aggregate investors' risk aversion and the economic uncertainty embedded in financial markets. Since 1990, the VRP of the S&P 500 has been on average positive by about 4-5 volatility points. In figure 4, the VRP is measured as the difference between the VIX index and the actual volatility of the index, or standard deviation of the daily price returns realized during the subsequent month.

## Figure 4 - Volatility risk premium of the S&P 500

Difference between the VIX and the subsequent 1-month daily realized volatility of the S&P 500, in volatility points



Source: Bloomberg, UBS, as of March 2022

# Trading Approach and Philosophy

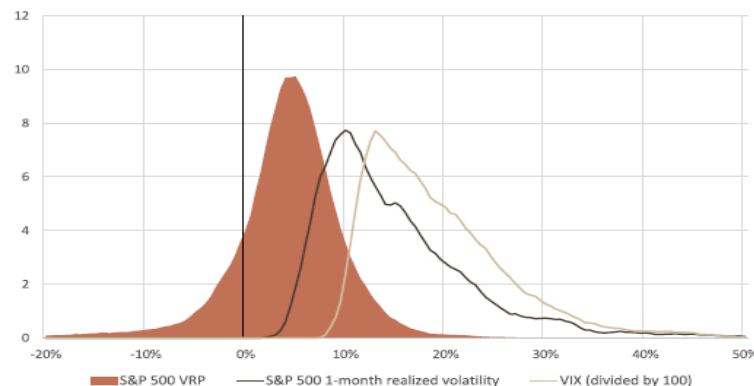
## Trade Alert selection

✦ Figure 4 shows that the VRP is not constant and varies significantly on a daily basis. On several occasions over the past 30 years, the VRP of the S&P 500 has spiked, but then rapidly reverted and even turned negative. This volatile behavior is in part a consequence of the way we measure the VRP and can be explained by the different dynamics of implied and realized volatilities. While the VIX, a proxy for implied volatility, reacts quickly to new information, our measure of the S&P 500 1-month realized volatility has tended to move more slowly. Still, the average level of the S&P 500 VRP has been positive, as confirmed by its distribution in figure 5, and less than 15% of the time negative.



**Figure 5 - Difference between implied and realized volatility**

Distributions of the VIX, the S&P 1-month realized volatility and the S&P 500 VRP, since 1990, in volatility points



Source: Bloomberg, UBS, as of March 2022

The VRP can be observed across several asset classes. The difference between implied and realized volatilities of different underlying assets shows evidence of a VRP in bonds, commodities and FX (see table 1).

**Table 1 - Volatility risk premium in different asset classes**

| Asset              | Avg 1M VRP [vol pts] | Measured since |
|--------------------|----------------------|----------------|
| S&P 500            | 4.5                  | Jan-90         |
| Euro Stoxx 50      | 4.0                  | Jan-99         |
| Nikkei 225         | 4.0                  | Jan-01         |
| MSCI EM            | 4.0                  | Mar-11         |
| 20y+ US Treasuries | 1.3                  | Jan-04         |
| Gold               | 3.5                  | Jun-08         |
| WTI Crude Oil      | 6.3                  | May-07         |
| EURUSD             | 1.4                  | Nov-07         |

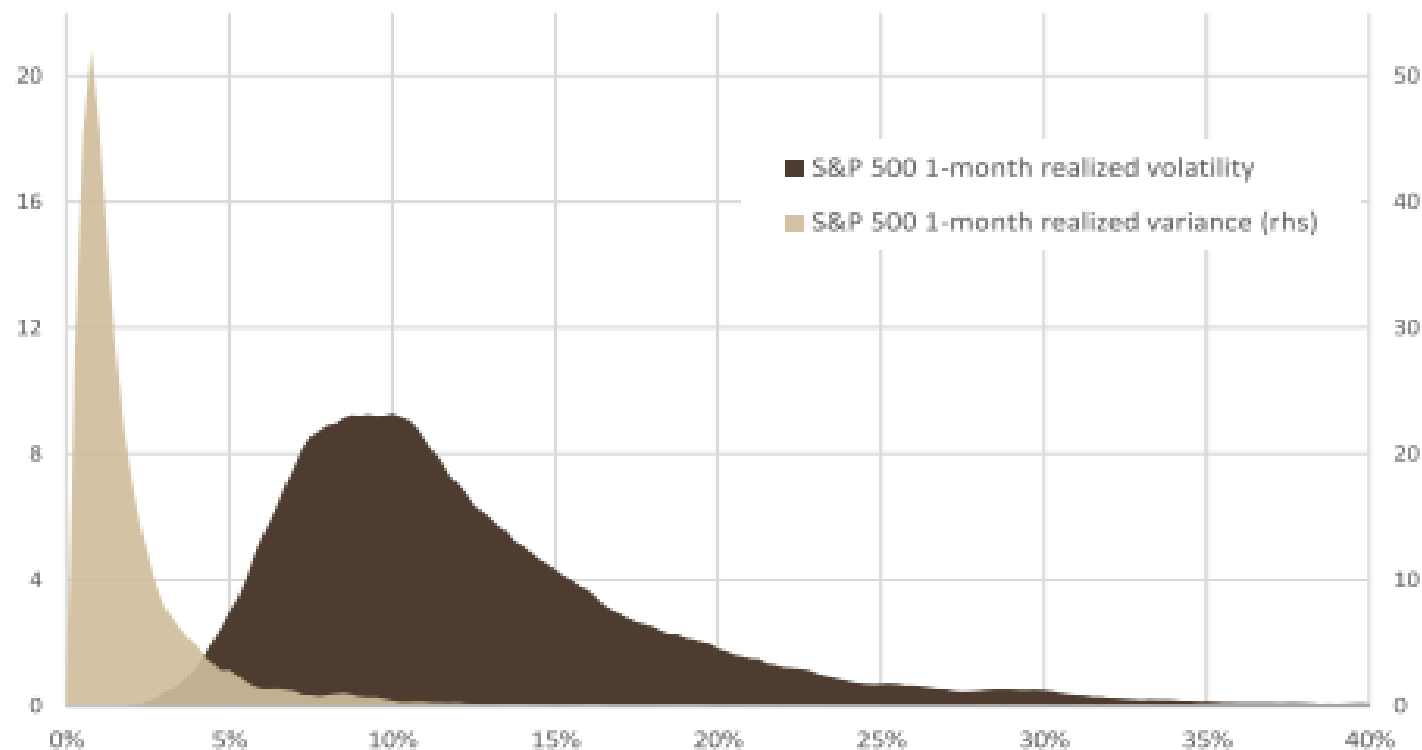
Source: Bloomberg, UBS, as of March 2022

Note: VRP measured using the following volatility indexes: VIX (S&P 500), VSTOXX (Euro Stoxx 50), Nikkei Stock Average Volatility Index (Nikkei 225), VXEEM (MSCI EM), TLTVIX (20y+ US Treasuries), Cboe Gold ETF Volatility Index (Gold), Cboe Crude Oil ETF Volatility Index (WTI Crude Oil), Cboe EuroCurrency Volatility Index (EURUSD).



## Figure 1 - Volatility and variance distribution have right skewness

Distribution of S&P 500 1-month volatility and variance, computed using daily closing prices since 1950

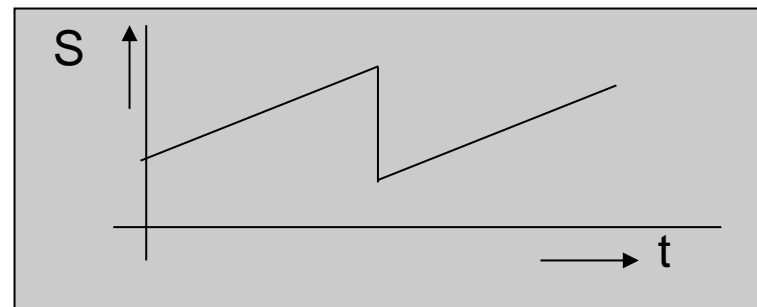
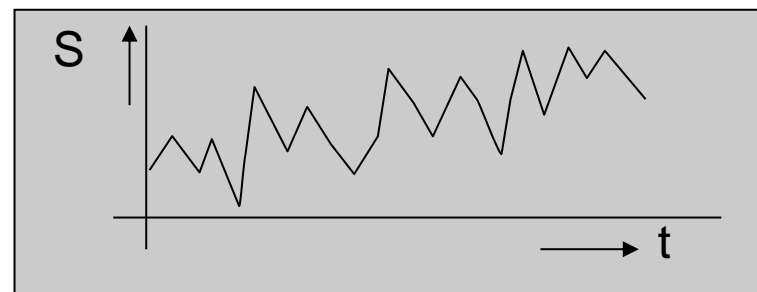


Source: Bloomberg, UBS, as of March 2022

## ♦ Modeling the future

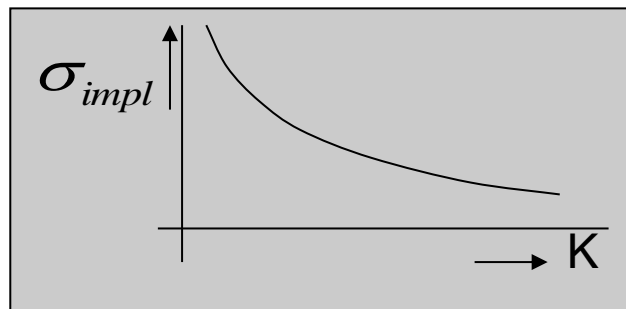
Main ingredients for spot modeling

- Many small shocks: Brownian Motion (continuous prices)
- A few big shocks: Poisson process (jumps)



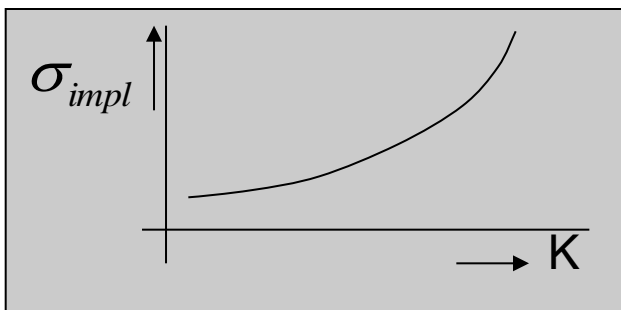
# Skews

After the 1987 crash: strong negative skew on Equity Markets

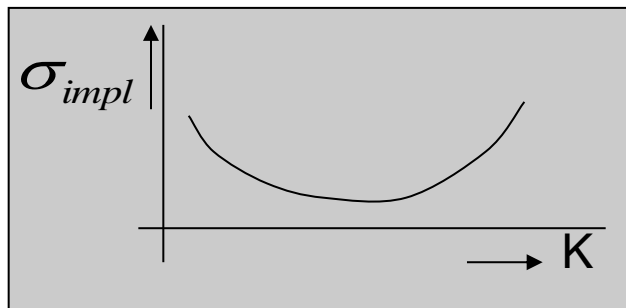


Not a general phenomenon

Gold:



FX:



# Skews

- Volatility Skew: slope of implied volatility as a function of Strike
- Link with Skewness (asymmetry) of the Risk Neutral density function  $\varphi$  ?

| Moments | Statistics  | Finance                  |
|---------|-------------|--------------------------|
| 1       | Expectation | FWD price                |
| 2       | Variance    | Level of implied vol     |
| 3       | Skewness    | Slope of implied vol     |
| 4       | Kurtosis    | Convexity of implied vol |

# Skews

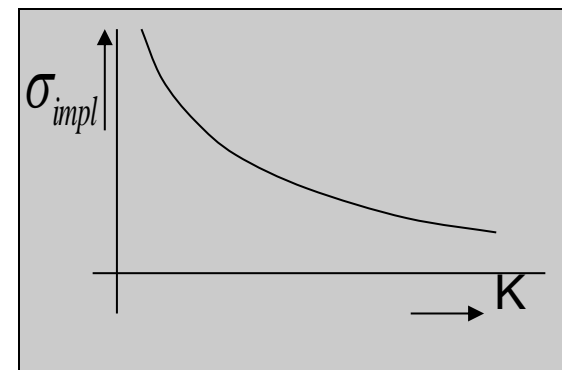
- Market prices governed by
  - a) Anticipated dynamics (future behavior of volatility or jumps)
  - b) Supply and Demand



- To “arbitrage” European options, estimate a) to capture risk premium b)
- To “arbitrage” (or correctly price) exotics, find Risk Neutral dynamics calibrated to the market

# Skews

- downward sloping implied volatilities



- a) Negative link between prices and volatility
  - Deterministic dependency (Local Volatility Model)
  - Or negative correlation (Stochastic volatility Model)
- b) Downward jumps



# Trading Approach and Philosophy

## Trade Alert selection



Strategies and Statistical Performance





# Trading Approach and Philosophy

## Trade Alert selection



### Historical Past Several Wed

```
date >= "2023-10-31" and c_day == "Wed" and time.astype("str") == "09:31:00"  
20230101_20240216_10W_float
```

| date       | time     | ATM  | term | c_day | s_day | b_day | expr_s     | expr_b     | strike_Sell_C | strike_Sell_P | strike_Buy_C | strike_Buy_P | Sell  | Buy   | last_spread | f/b_ratio | sell_puts | buy_puts | put_spd_iv | spxIV  |
|------------|----------|------|------|-------|-------|-------|------------|------------|---------------|---------------|--------------|--------------|-------|-------|-------------|-----------|-----------|----------|------------|--------|
| 2023-11-01 | 09:31:00 | 4200 | 1/5  | Wed   | Thu   | Mon   | 2023-11-02 | 2023-11-06 | 4210          | 4190          | 4210         | 4190         | 38.90 | 60.65 | 21.75       | 64.14%    | 24.22%    | 17.83%   | 6.39%      | 15.72% |
| 2023-11-08 | 09:31:00 | 4385 | 1/5  | Wed   | Thu   | Mon   | 2023-11-09 | 2023-11-13 | 4395          | 4375          | 4395         | 4375         | 20.80 | 36.70 | 15.90       | 56.68%    | 14.73%    | 11.64%   | 3.09%      | 12.38% |
| 2023-11-15 | 09:31:00 | 4510 | 1/5  | Wed   | Thu   | Mon   | 2023-11-16 | 2023-11-20 | 4520          | 4500          | 4520         | 4500         | 24.50 | 40.00 | 15.50       | 61.25%    | 15.87%    | 11.90%   | 3.97%      | 11.91% |
| 2023-11-29 | 09:31:00 | 4575 | 1/5  | Wed   | Thu   | Mon   | 2023-11-30 | 2023-12-04 | 4585          | 4565          | 4585         | 4565         | 17.95 | 31.70 | 13.75       | 56.62%    | 12.42%    | 9.67%    | 2.75%      | 10.32% |
| 2023-12-06 | 09:31:00 | 4590 | 1/5  | Wed   | Thu   | Mon   | 2023-12-07 | 2023-12-11 | 4600          | 4580          | 4600         | 4580         | 17.60 | 36.90 | 19.30       | 47.70%    | 11.58%    | 10.48%   | 1.10%      | 10.79% |
| 2023-12-13 | 09:31:00 | 4645 | 1/5  | Wed   | Thu   | Mon   | 2023-12-14 | 2023-12-18 | 4655          | 4635          | 4655         | 4635         | 26.50 | 37.25 | 10.75       | 71.14%    | 16.41%    | 10.80%   | 5.61%      | 10.16% |
| 2024-01-03 | 09:31:00 | 4720 | 1/5  | Wed   | Thu   | Mon   | 2024-01-04 | 2024-01-08 | 4730          | 4710          | 4730         | 4710         | 21.05 | 38.55 | 17.50       | 54.60%    | 12.95%    | 10.59%   | 2.36%      | 11.75% |
| 2024-01-17 | 09:31:00 | 4735 | 1/5  | Wed   | Thu   | Mon   | 2024-01-18 | 2024-01-22 | 4745          | 4725          | 4745         | 4725         | 24.50 | 42.00 | 17.50       | 58.33%    | 14.82%    | 11.57%   | 3.25%      | 12.54% |
| 2024-01-24 | 09:31:00 | 4890 | 1/5  | Wed   | Thu   | Mon   | 2024-01-25 | 2024-01-29 | 4900          | 4880          | 4900         | 4880         | 18.85 | 31.85 | 13.00       | 59.18%    | 12.08%    | 9.05%    | 3.03%      | 10.32% |
| 2024-01-31 | 09:31:00 | 4905 | 1/5  | Wed   | Thu   | Mon   | 2024-02-01 | 2024-02-05 | 4915          | 4895          | 4915         | 4895         | 31.40 | 48.85 | 17.45       | 64.28%    | 17.42%    | 12.66%   | 4.76%      | 10.79% |
| 2024-02-07 | 09:31:00 | 4980 | 1/5  | Wed   | Thu   | Mon   | 2024-02-08 | 2024-02-12 | 4990          | 4970          | 4990         | 4970         | 21.25 | 36.90 | 15.65       | 57.59%    | 12.99%    | 10.07%   | 2.92%      | 10.64% |

### FOMC Minute Release

```
date in @lookup_list_strings and c_day == "Wed" and time.astype("str") == "09:31:00"  
20230101_20240216_10W_fix
```

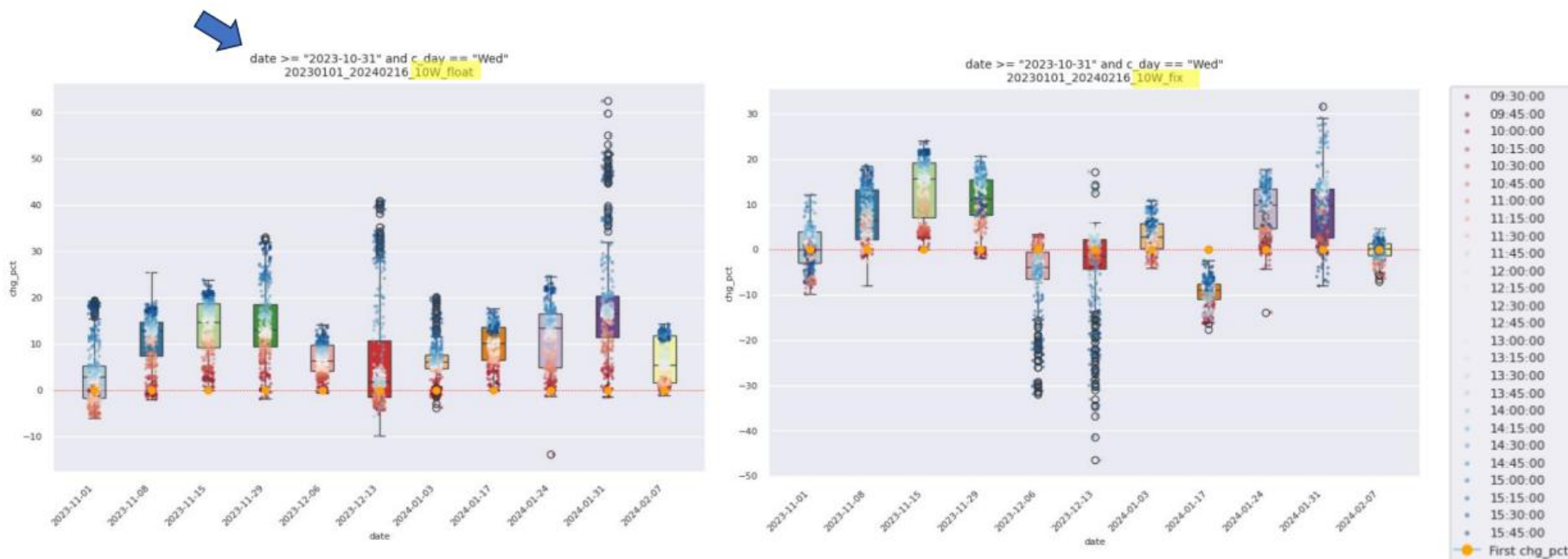
| date       | time     | ATM  | term | c_day | s_day | b_day | expr_s     | expr_b     | strike_Sell_C | strike_Sell_P | strike_Buy_C | strike_Buy_P | Sell  | Buy   | last_spread | f/b_ratio | sell_puts | buy_puts | put_spd_iv | spxIV  |
|------------|----------|------|------|-------|-------|-------|------------|------------|---------------|---------------|--------------|--------------|-------|-------|-------------|-----------|-----------|----------|------------|--------|
| 2023-01-04 | 09:31:00 | 3840 | 1/5  | Wed   | Thu   | Mon   | 2023-01-05 | 2023-01-09 | 3850          | 3830          | 3850         | 3830         | 41.95 | 70.35 | 28.40       | 59.63%    | 27.66%    | 21.83%   | 5.83%      | 21.59% |
| 2023-02-22 | 09:31:00 | 4000 | 1/5  | Wed   | Thu   | Mon   | 2023-02-23 | 2023-02-27 | 4010          | 3990          | 4010         | 3990         | 40.45 | 64.55 | 24.10       | 62.66%    | 26.21%    | 19.74%   | 6.47%      | 20.80% |
| 2023-04-12 | 09:31:00 | 4130 | 1/5  | Wed   | Thu   | Mon   | 2023-04-13 | 2023-04-17 | 4130          | 4110          | 4130         | 4110         | 29.90 | 47.60 | 17.70       | 62.82%    | 20.25%    | 14.85%   | 5.40%      | 16.19% |
| 2023-07-05 | 09:31:00 | 4440 | 1/5  | Wed   | Thu   | Mon   | 2023-07-06 | 2023-07-10 | 4450          | 4430          | 4450         | 4430         | 18.10 | 34.30 | 16.20       | 52.77%    | 13.59%    | 11.11%   | 2.48%      | 11.75% |
| 2023-08-16 | 09:31:00 | 4435 | 1/5  | Wed   | Thu   | Mon   | 2023-08-17 | 2023-08-21 | 4445          | 4425          | 4445         | 4425         | 27.55 | 46.55 | 19.00       | 59.18%    | 17.81%    | 13.74%   | 4.07%      | 13.65% |
| 2023-10-11 | 09:31:00 | 4375 | 1/5  | Wed   | Thu   | Mon   | 2023-10-12 | 2023-10-16 | 4375          | 4355          | 4375         | 4355         | 35.10 | 50.65 | 15.55       | 69.30%    | 20.86%    | 14.40%   | 6.46%      | 14.13% |
| 2024-01-03 | 09:31:00 | 4720 | 1/5  | Wed   | Thu   | Mon   | 2024-01-04 | 2024-01-08 | 4735          | 4715          | 4735         | 4715         | 20.60 | 38.00 | 17.40       | 54.21%    | 12.82%    | 10.51%   | 2.31%      | 11.75% |

# Trading Approach and Philosophy

## Trade Alert selection

Historical Past Several Wed

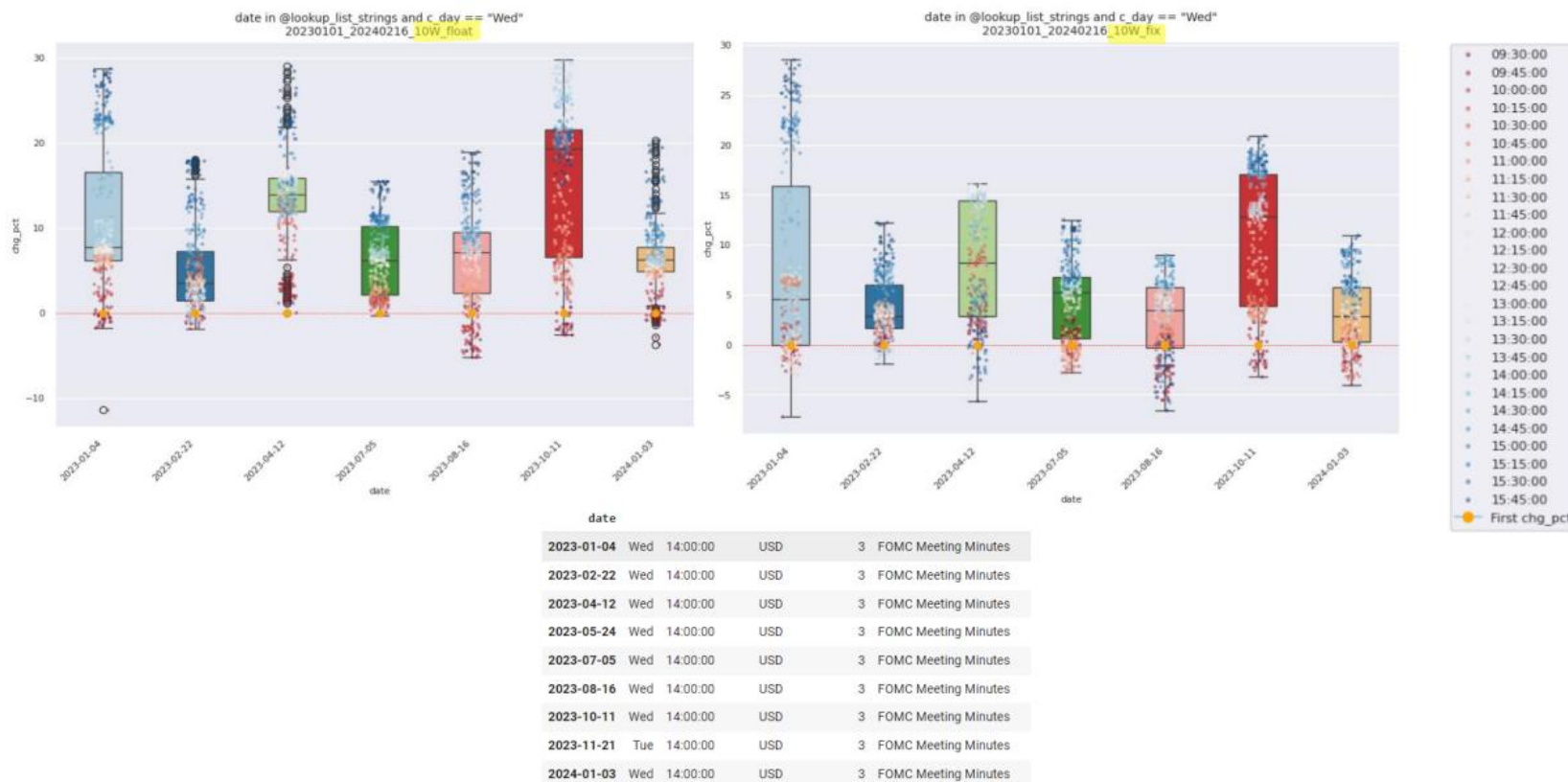
See Page 4 on how to Read a Boxplot



# Trading Approach and Philosophy

## Trade Alert selection

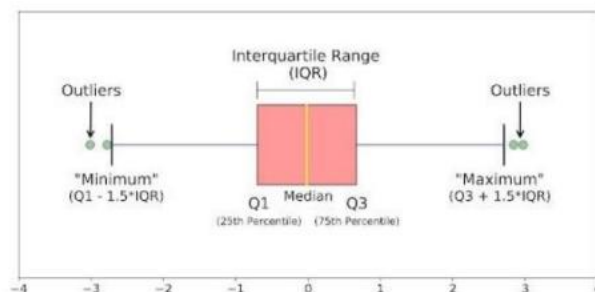
FOMC Minute Release



# Trading Approach and Philosophy

## Trade Alert selection

### How to Read a Boxplot



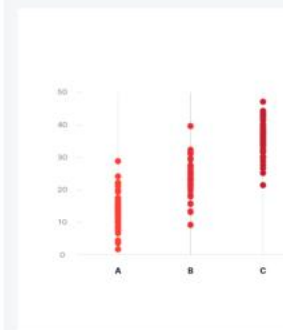
Different parts of a boxplot | Image: Author

- **Median (Q2/50th percentile):** The middle value of the data set
- **First Quartile (Q1/25th percentile):** The middle number between the smallest number (not the "minimum") and the median of the data set
- **Third Quartile (Q3/75th percentile):** The middle value between the median and the highest value (not the "maximum") of the dataset
- **Interquartile Range (IQR):** 25th to the 75th percentile
- **Whiskers** (shown in blue)
- **Outliers** (shown as green circles)
- **"Minimum":**  $Q1 - 1.5 \cdot IQR$
- **"Maximum":**  $Q3 + 1.5 \cdot IQR$

### Boxplots are overlaid with Strip Plot

A strip plot is a single-axis scatter plot that is used to visualise the distribution of many individual one-dimensional values. The values are plotted as dots along one unique axis, and the dots with the same value can overlap. To show overlapping values, the opacity or colour of the dots can be changed, or a jitter plot or counts plot can be used instead. Typically, several strip plots are placed side by side to compare the distributions of data points among several values, categories or ranges.

**Strip Plot** Also called: Individual Value Plot or Single-



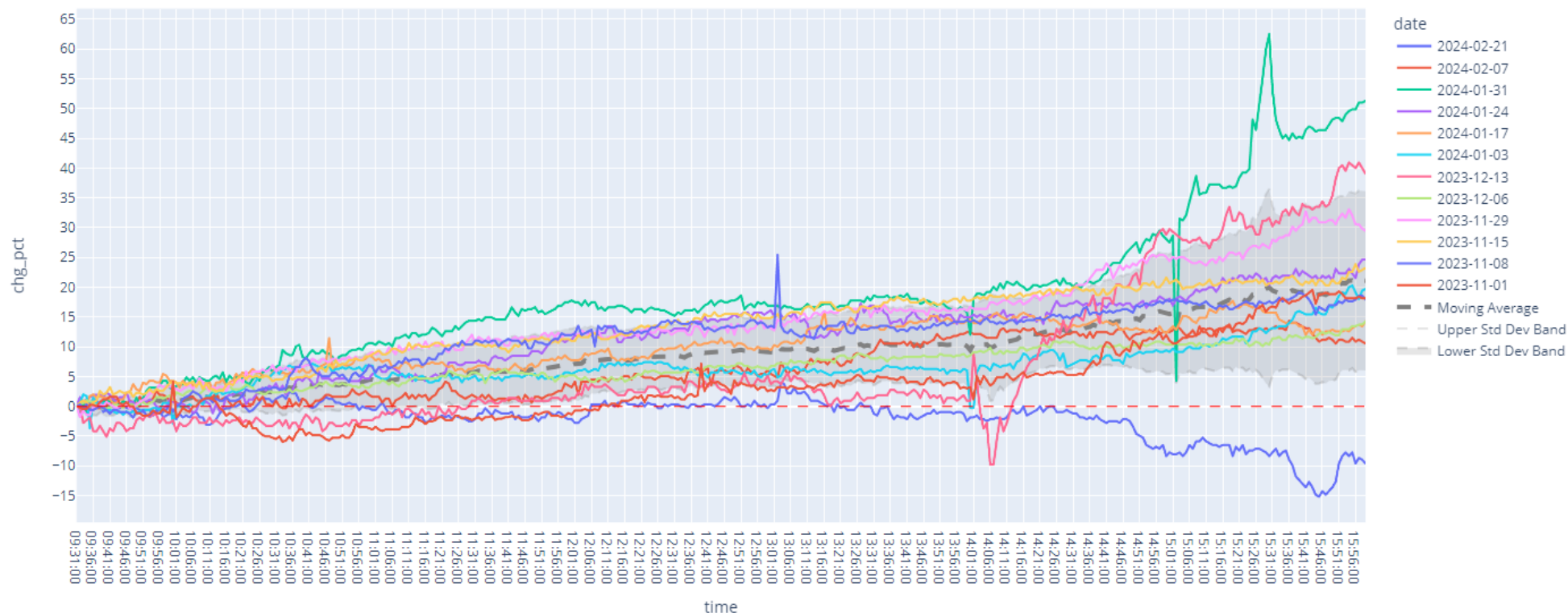
Strip Plot are broken into 15 minutes Segments, which represent RTH

# Trading Approach and Philosophy

## Trade Alert selection

```
date >= "2023-10-31" and c_day == "Wed"
```

20230101\_20240223\_10W\_float



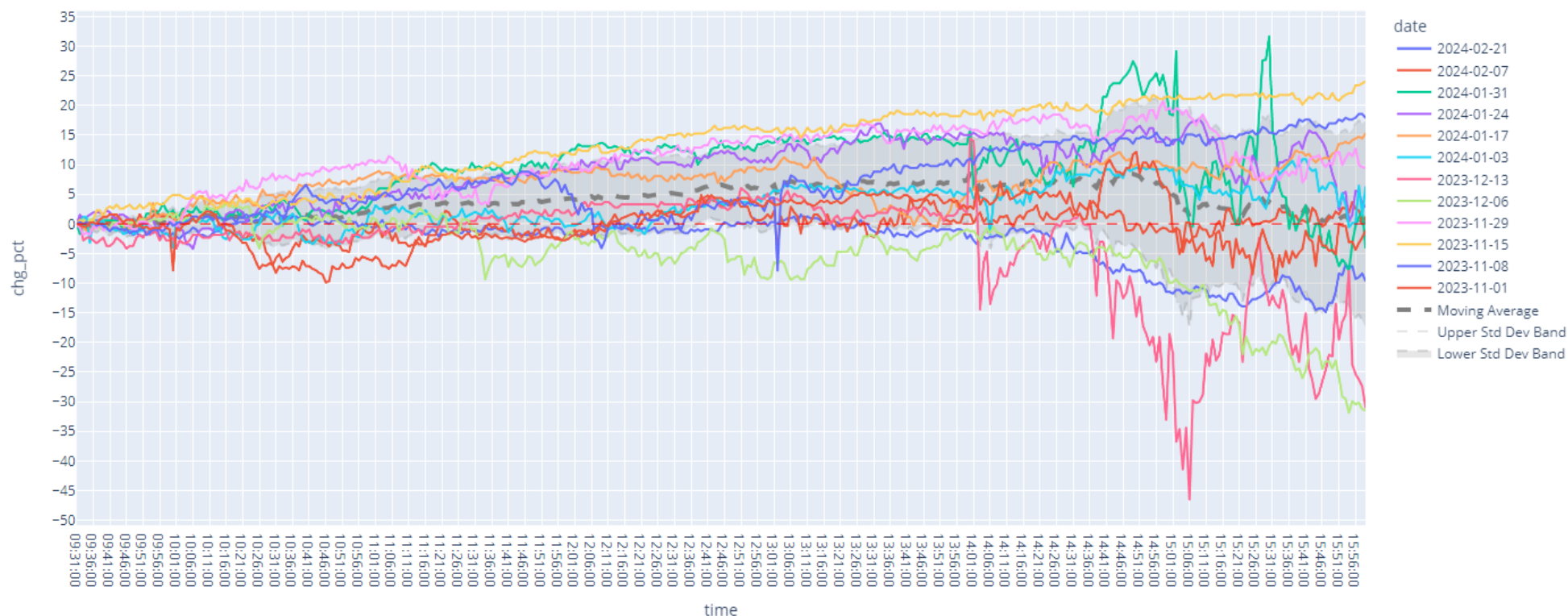


# Trading Approach and Philosophy

## Trade Alert selection

```
date >= "2023-10-31" and c_day == "Wed"
```

20230101\_20240223\_10W\_fix

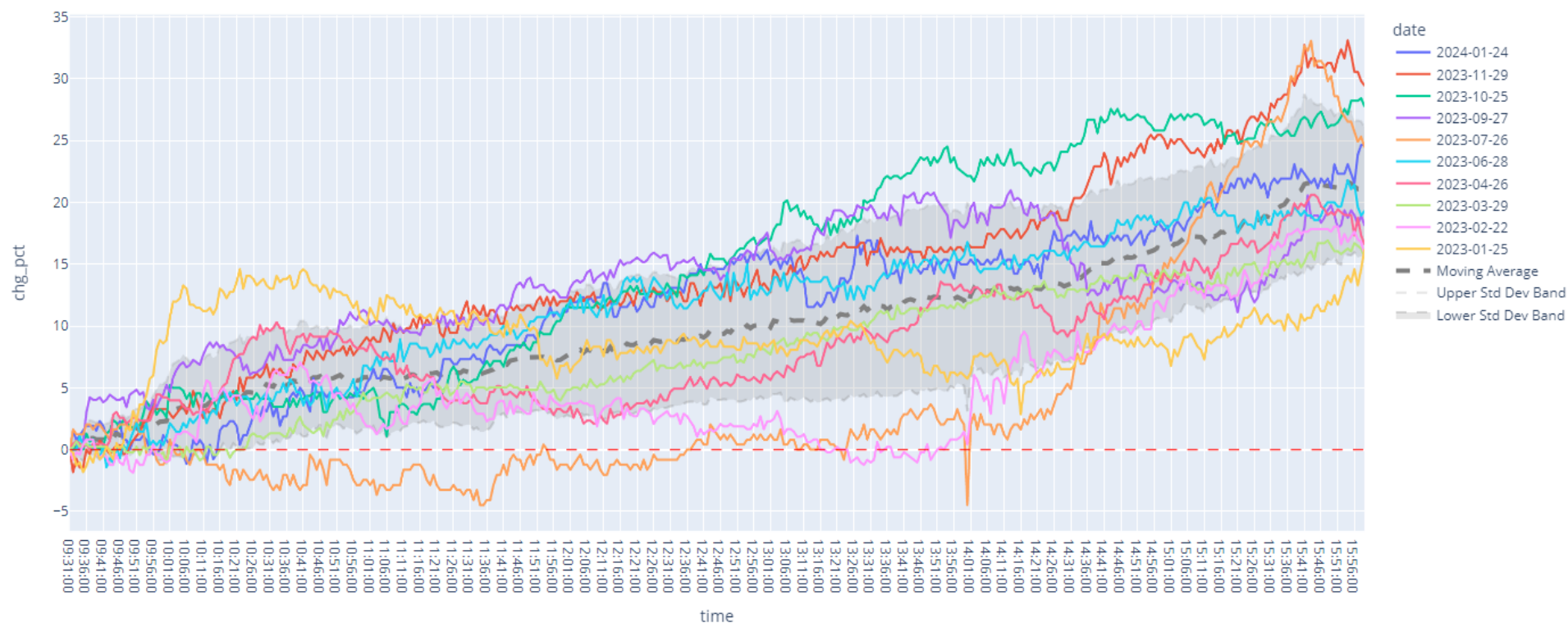


# Trading Approach and Philosophy

## Trade Alert selection

date in @lookup\_list\_strings **PCE Week**

20230101\_20240223\_10W\_float

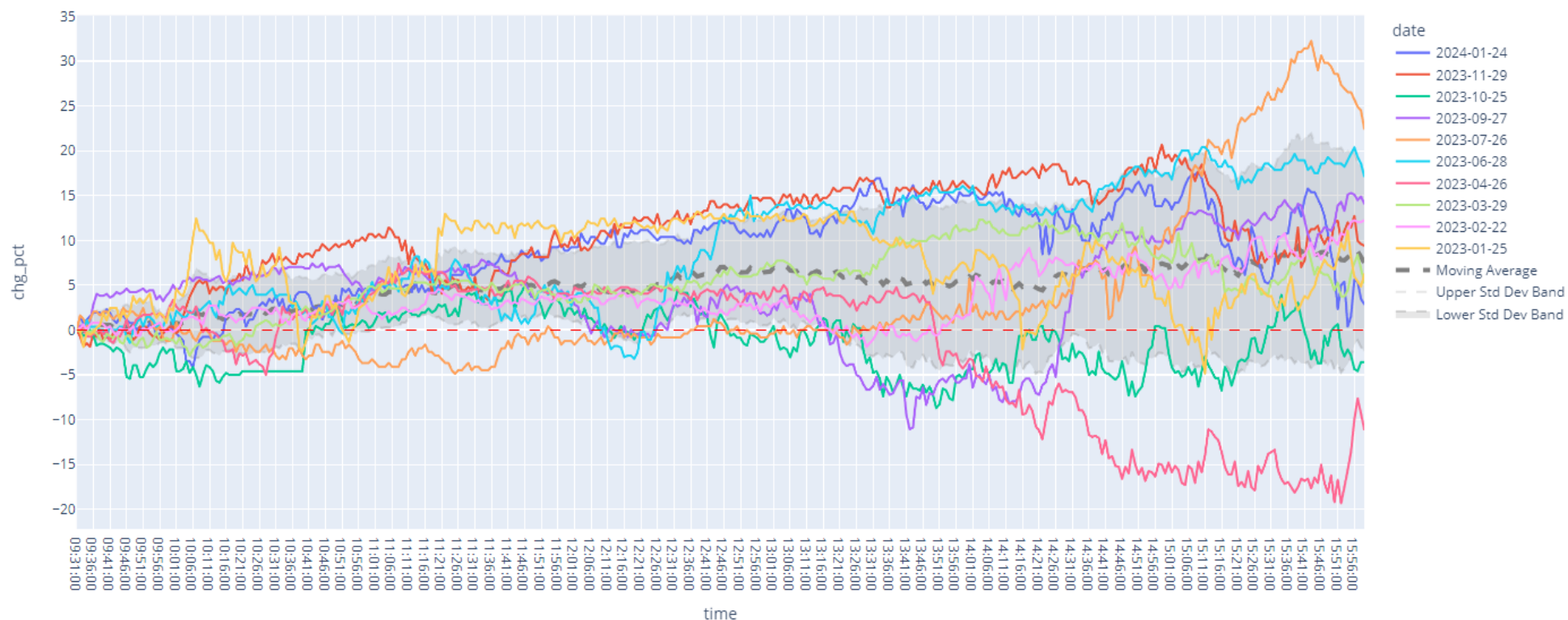


# Trading Approach and Philosophy

## Trade Alert selection

date in @lookup\_list\_strings **PCE Week**

20230101\_20240223\_10W\_fix







# Trading Approach and Philosophy

## Trade Alert selection



```
date >= "2023-10-31" and c_day == "Wed" and time.astype("str") == "09:31:00"  
20230101_20240223_10W_fix
```

| date       | time     | ATM  | term | c_day | s_day | b_day | expr_s     | expr_b     | strike_Sell_C | strike_Sell_P | strike_Buy_C | strike_Buy_P | Sell  | Buy   | last_spread | f/b_ratio | sell_puts | buy_puts | put_sprd_iv | spxIV  |
|------------|----------|------|------|-------|-------|-------|------------|------------|---------------|---------------|--------------|--------------|-------|-------|-------------|-----------|-----------|----------|-------------|--------|
| 2023-11-01 | 09:31:00 | 4200 | 1/5  | Wed   | Thu   | Mon   | 2023-11-02 | 2023-11-06 | 4210          | 4190          | 4210         | 4190         | 38.90 | 60.65 | 21.75       | 64.14%    | 24.22%    | 17.83%   | 6.39%       | 15.72% |
| 2023-11-08 | 09:31:00 | 4385 | 1/5  | Wed   | Thu   | Mon   | 2023-11-09 | 2023-11-13 | 4395          | 4375          | 4395         | 4375         | 20.80 | 36.70 | 15.90       | 56.68%    | 14.73%    | 11.64%   | 3.09%       | 12.38% |
| 2023-11-15 | 09:31:00 | 4510 | 1/5  | Wed   | Thu   | Mon   | 2023-11-16 | 2023-11-20 | 4515          | 4495          | 4515         | 4495         | 25.05 | 40.45 | 15.40       | 61.93%    | 16.10%    | 11.97%   | 4.13%       | 11.91% |
| 2023-11-29 | 09:31:00 | 4575 | 1/5  | Wed   | Thu   | Mon   | 2023-11-30 | 2023-12-04 | 4580          | 4560          | 4580         | 4560         | 18.75 | 32.30 | 13.55       | 58.05%    | 12.51%    | 9.71%    | 2.80%       | 10.32% |
| 2023-12-06 | 09:31:00 | 4590 | 1/5  | Wed   | Thu   | Mon   | 2023-12-07 | 2023-12-11 | 4595          | 4575          | 4595         | 4575         | 18.10 | 37.40 | 19.30       | 48.40%    | 11.76%    | 10.54%   | 1.22%       | 10.79% |
| 2023-12-13 | 09:31:00 | 4645 | 1/5  | Wed   | Thu   | Mon   | 2023-12-14 | 2023-12-18 | 4655          | 4635          | 4655         | 4635         | 26.50 | 37.25 | 10.75       | 71.14%    | 16.41%    | 10.80%   | 5.61%       | 10.16% |
| 2024-01-03 | 09:31:00 | 4720 | 1/5  | Wed   | Thu   | Mon   | 2024-01-04 | 2024-01-08 | 4735          | 4715          | 4735         | 4715         | 20.60 | 38.00 | 17.40       | 54.21%    | 12.82%    | 10.51%   | 2.31%       | 11.75% |
| 2024-01-17 | 09:31:00 | 4735 | 1/5  | Wed   | Thu   | Mon   | 2024-01-18 | 2024-01-22 | 4750          | 4730          | 4750         | 4730         | 24.45 | 41.80 | 17.35       | 58.49%    | 14.64%    | 11.51%   | 3.13%       | 12.54% |
| 2024-01-24 | 09:31:00 | 4890 | 1/5  | Wed   | Thu   | Mon   | 2024-01-25 | 2024-01-29 | 4900          | 4880          | 4900         | 4880         | 18.85 | 31.85 | 13.00       | 59.18%    | 12.08%    | 9.05%    | 3.03%       | 10.32% |
| 2024-01-31 | 09:31:00 | 4905 | 1/5  | Wed   | Thu   | Mon   | 2024-02-01 | 2024-02-05 | 4910          | 4890          | 4910         | 4890         | 31.55 | 49.05 | 17.50       | 64.32%    | 17.48%    | 12.68%   | 4.80%       | 10.79% |
| 2024-02-07 | 09:31:00 | 4980 | 1/5  | Wed   | Thu   | Mon   | 2024-02-08 | 2024-02-12 | 4985          | 4965          | 4985         | 4965         | 21.60 | 37.25 | 15.65       | 57.99%    | 13.11%    | 10.09%   | 3.02%       | 10.64% |
| 2024-02-21 | 09:31:00 | 4965 | 1/5  | Wed   | Thu   | Mon   | 2024-02-22 | 2024-02-26 | 4975          | 4955          | 4975         | 4955         | 36.90 | 53.05 | 16.15       | 69.56%    | 18.83%    | 13.04%   | 5.79%       | 12.86% |



# Trading Approach and Philosophy

## Trade Alert selection



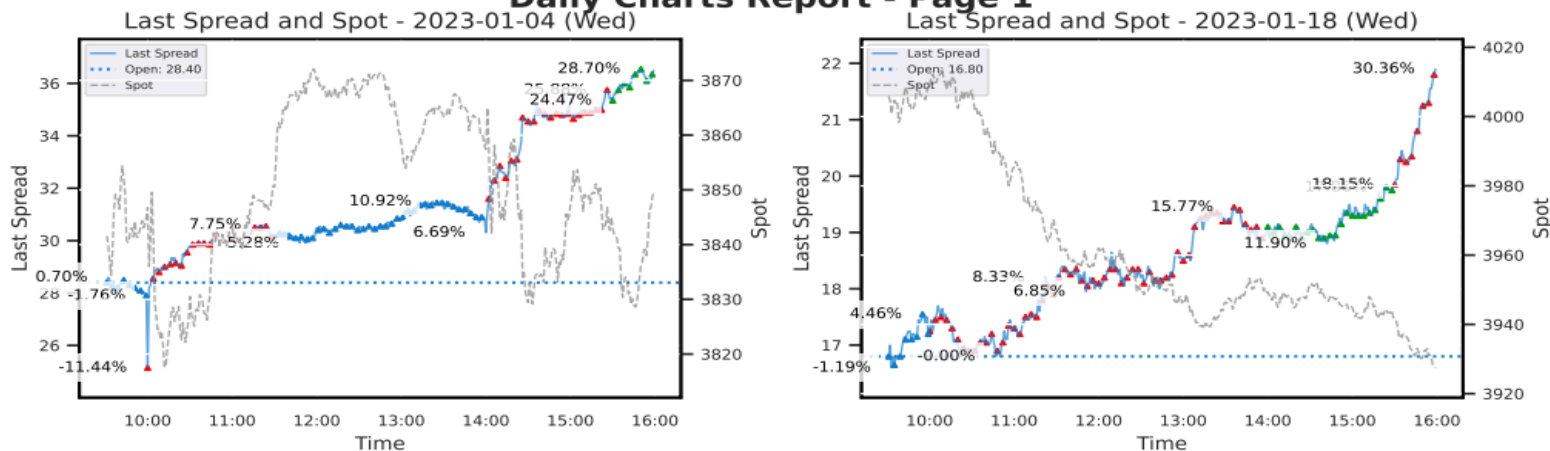
```
date in @lookup_list_strings and time.astype("str") == "09:31:00" PCE Week  
20230101_20240223_10W_fix
```

| date       | time     | ATM  | term | c_day | s_day | b_day | expr_s     | expr_b     | strike_Sell_C | strike_Sell_P | strike_Buy_C | strike_Buy_P | Sell  | Buy   | last_spread | f/b_ratio | sell_puts | buy_puts | put_spd_iv | spxIV  |
|------------|----------|------|------|-------|-------|-------|------------|------------|---------------|---------------|--------------|--------------|-------|-------|-------------|-----------|-----------|----------|------------|--------|
| 2023-01-25 | 09:31:00 | 3970 | 1/5  | Wed   | Thu   | Mon   | 2023-01-26 | 2023-01-30 | 3995          | 3975          | 3995         | 3975         | 34.60 | 53.10 | 18.50       | 65.16%    | 24.00%    | 17.33%   | 6.67%      | 18.26% |
| 2023-02-22 | 09:31:00 | 4000 | 1/5  | Wed   | Thu   | Mon   | 2023-02-23 | 2023-02-27 | 4010          | 3990          | 4010         | 3990         | 40.45 | 64.55 | 24.10       | 62.66%    | 26.21%    | 19.74%   | 6.47%      | 20.80% |
| 2023-03-29 | 09:31:00 | 4010 | 1/5  | Wed   | Thu   | Mon   | 2023-03-30 | 2023-04-03 | 4010          | 3990          | 4010         | 3990         | 30.50 | 53.20 | 22.70       | 57.33%    | 20.36%    | 16.33%   | 4.03%      | 16.99% |
| 2023-04-26 | 09:31:00 | 4080 | 1/5  | Wed   | Thu   | Mon   | 2023-04-27 | 2023-05-01 | 4100          | 4080          | 4100         | 4080         | 25.65 | 46.60 | 20.95       | 55.04%    | 18.21%    | 14.93%   | 3.28%      | 16.03% |
| 2023-06-28 | 09:31:00 | 4365 | 1/5  | Wed   | Thu   | Mon   | 2023-06-29 | 2023-07-03 | 4375          | 4355          | 4375         | 4355         | 17.85 | 31.85 | 14.00       | 56.04%    | 12.57%    | 9.87%    | 2.70%      | 11.27% |
| 2023-07-26 | 09:31:00 | 4560 | 1/5  | Wed   | Thu   | Mon   | 2023-07-27 | 2023-07-31 | 4570          | 4550          | 4570         | 4550         | 30.00 | 42.25 | 12.25       | 71.01%    | 18.16%    | 12.26%   | 5.90%      | 11.11% |
| 2023-09-27 | 09:31:00 | 4290 | 1/5  | Wed   | Thu   | Mon   | 2023-09-28 | 2023-10-02 | 4295          | 4275          | 4295         | 4275         | 31.70 | 56.55 | 24.85       | 56.06%    | 20.63%    | 16.66%   | 3.97%      | 15.72% |
| 2023-10-25 | 09:31:00 | 4225 | 1/5  | Wed   | Thu   | Mon   | 2023-10-26 | 2023-10-30 | 4240          | 4220          | 4240         | 4220         | 32.55 | 55.50 | 22.95       | 58.65%    | 20.18%    | 16.15%   | 4.03%      | 16.51% |
| 2023-11-29 | 09:31:00 | 4575 | 1/5  | Wed   | Thu   | Mon   | 2023-11-30 | 2023-12-04 | 4580          | 4560          | 4580         | 4560         | 18.75 | 32.30 | 13.55       | 58.05%    | 12.51%    | 9.71%    | 2.80%      | 10.32% |
| 2024-01-24 | 09:31:00 | 4890 | 1/5  | Wed   | Thu   | Mon   | 2024-01-25 | 2024-01-29 | 4900          | 4880          | 4900         | 4880         | 18.85 | 31.85 | 13.00       | 59.18%    | 12.08%    | 9.05%    | 3.03%      | 10.32% |

# Trading Approach and Philosophy

## Trade Alert selection

### Daily Charts Report - Page 1



#### Movement Classification:

- Red: The last spread changes by more than 4% within a segment, indicating high volatility.
- Green: The last spread changes by more than 2.5% but less than or equal to 4% within a segment, indicating moderate volatility.
- Blue: The last spread changes by less than or equal to 2.5% within a segment, indicating low volatility.

The data points are colored based on the movement classification within each segment, with red indicating high volatility, green indicating moderate volatility, and blue indicating low volatility. The segments are kept the same color unless there is an outlier.

#### Time Segments:

The trading day is divided into the following time segments:

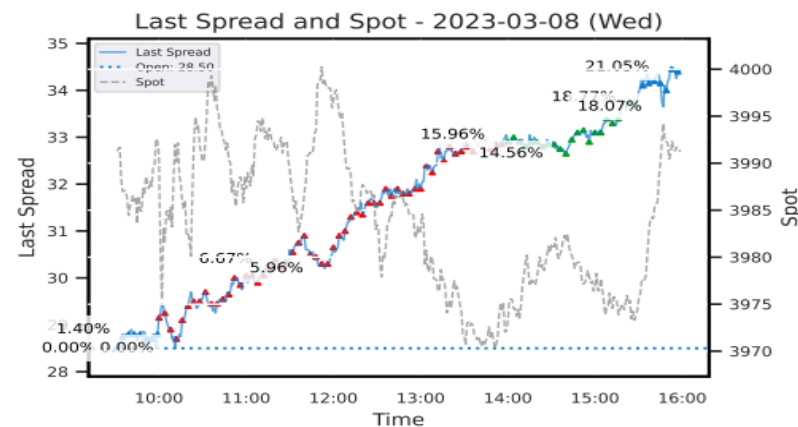
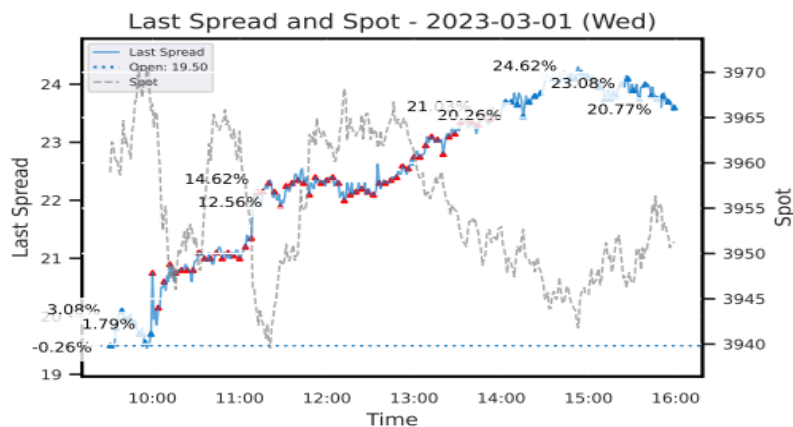
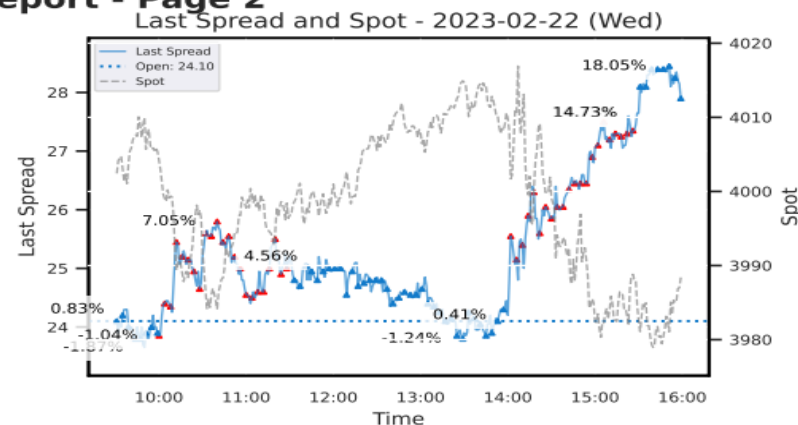
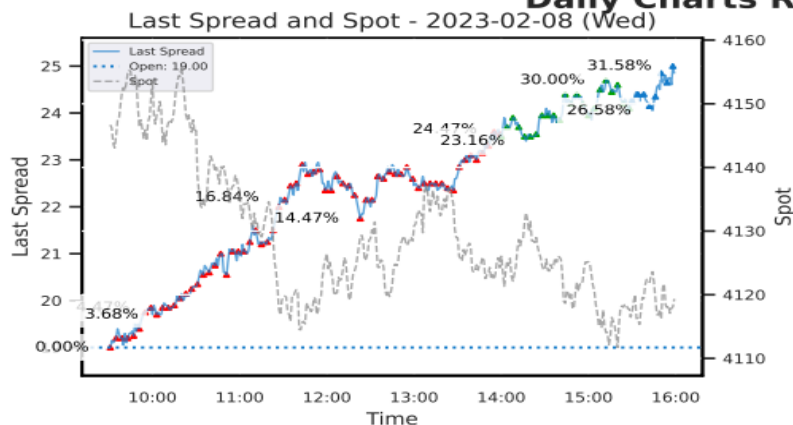
- 09:30 - 10:00
- 10:00 - 11:30
- 11:30 - 14:00
- 14:00 - 15:30
- 15:30 - 16:00

These time segments are used to analyze the volatility patterns throughout the trading day. By examining the movement classification within each segment, investors and analysts can gain insights into the typical volatility behavior during different periods of the day.

# Trading Approach and Philosophy

## Trade Alert selection

**Daily Charts Report - Page 2**





# Trading Approach and Philosophy

## Trade Alert selection



## Strategy Selection

# Time Spreads



- ✦ A **calendar spread** involves buying and selling options with the same strike price but different expiration dates. This strategy aims to take advantage of the difference in time decay between the short-term and long-term options.
- ✦ **Key Characteristics:**
  - **Short-term option (sold leg):** Benefits from faster time decay, as it is closer to expiration.
  - **Long-term option (bought leg):** Retains more of its value due to having more time until expiration.
  - **Market Outlook:** Calendar spreads are neutral strategies that work best when the underlying price remains near the strike price.
- ✦ **Why Calendar Spreads?**
  - Calendar spreads are designed to **profit from time decay** (theta) without requiring large directional moves in the underlying asset (SPX).
  - The strategy is most effective when the market stays relatively stable and the Implied Volatility Ratio\* of the spread is positive , allowing the short-term option to decay rapidly while the long-term option retains value.
- ✦ \*Short/Long Ratio.



# Time Spreads



- ◆ **Time Decay and Volatility in Calendar Spreads**

- ◆ The success of calendar spreads relies on understanding the relationship between time decay and implied volatility.
- **Time Decay:** The short leg decays more quickly as it is closer to expiration, which is beneficial for the spread.
  - **15DTE or 30DTE options** decay exponentially as expiry approaches , allowing you to capture profits if SPX remains near the strike price.
- **Implied Volatility (IV):** Calendar spreads perform well when **volatility increases** after entering the trade because the long leg gains value due to its higher sensitivity to volatility changes.
  - If volatility drops significantly, it can negatively impact the strategy, as both legs lose value more quickly.

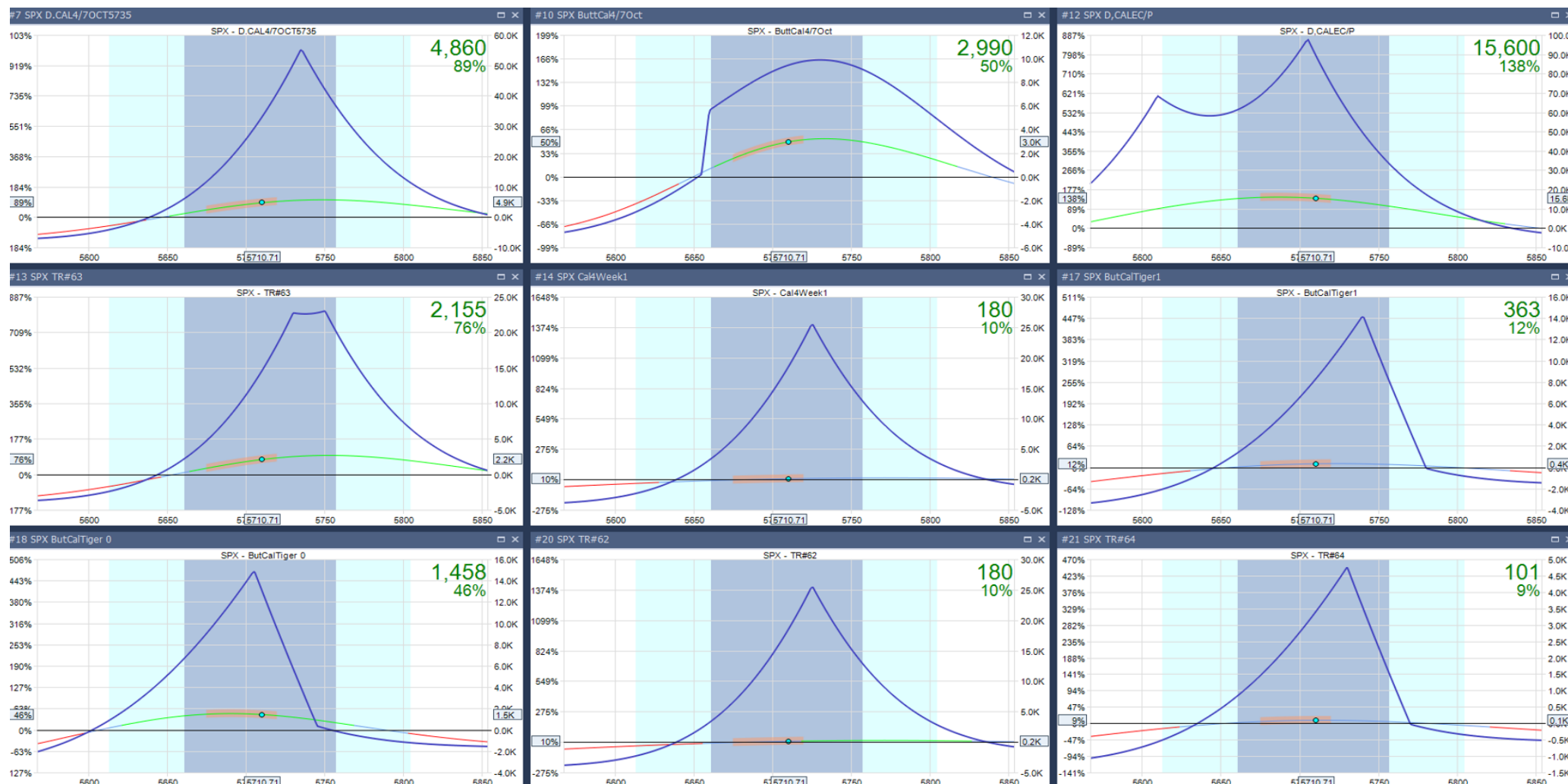
# BWB



- ✦ The way we trade the Broken Wing Butterfly (BWB) strategy is different from most other popular strategies and models . Instead of aiming for small profits while risking occasional big losses, we flip that idea upside down. Our goal is to break even, while carefully managing risk for the potential of a big win! Of course, we'll also try for small gains along the way, but keeping risk in check is key to our approach.

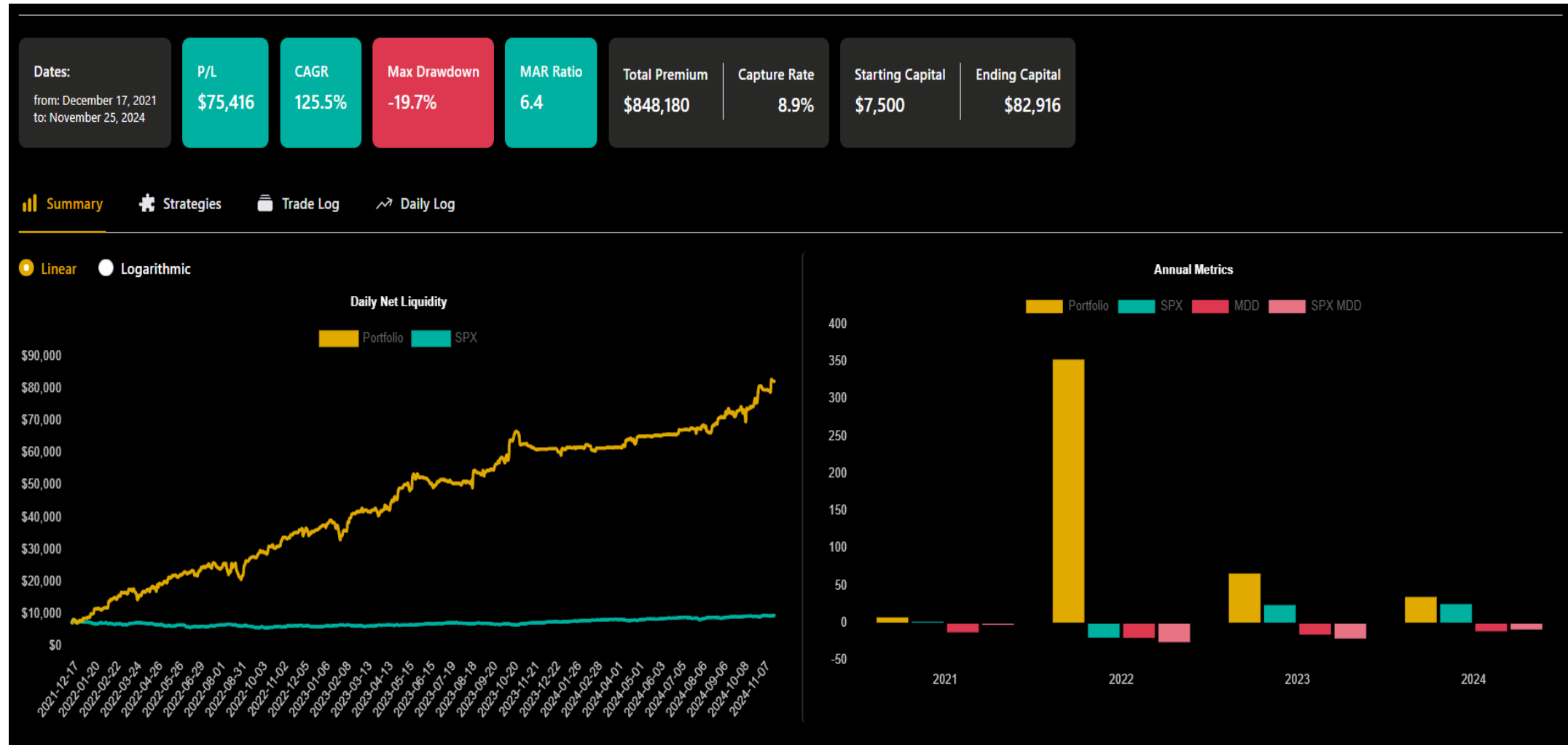


# Examples

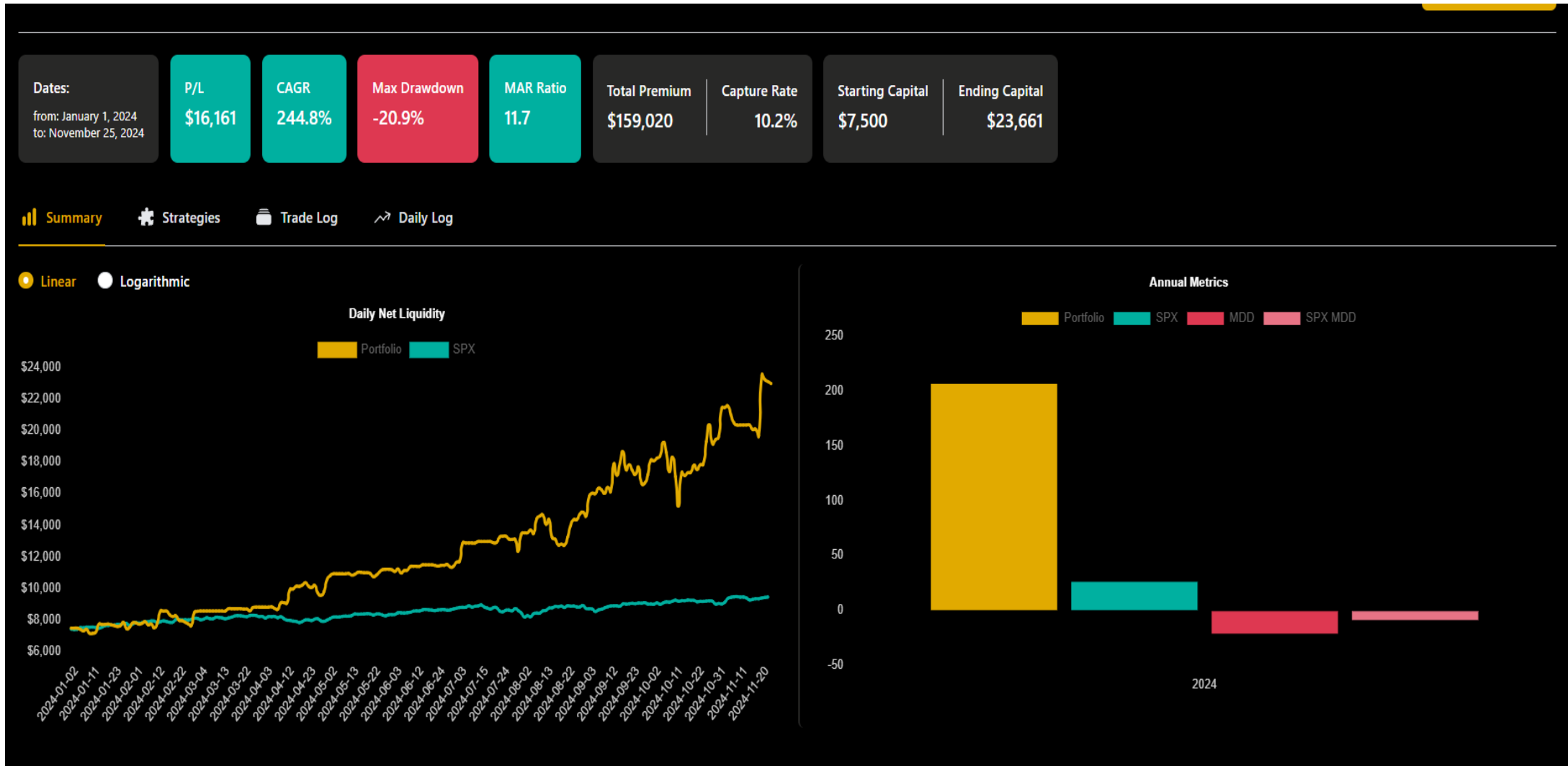


AEROMIR

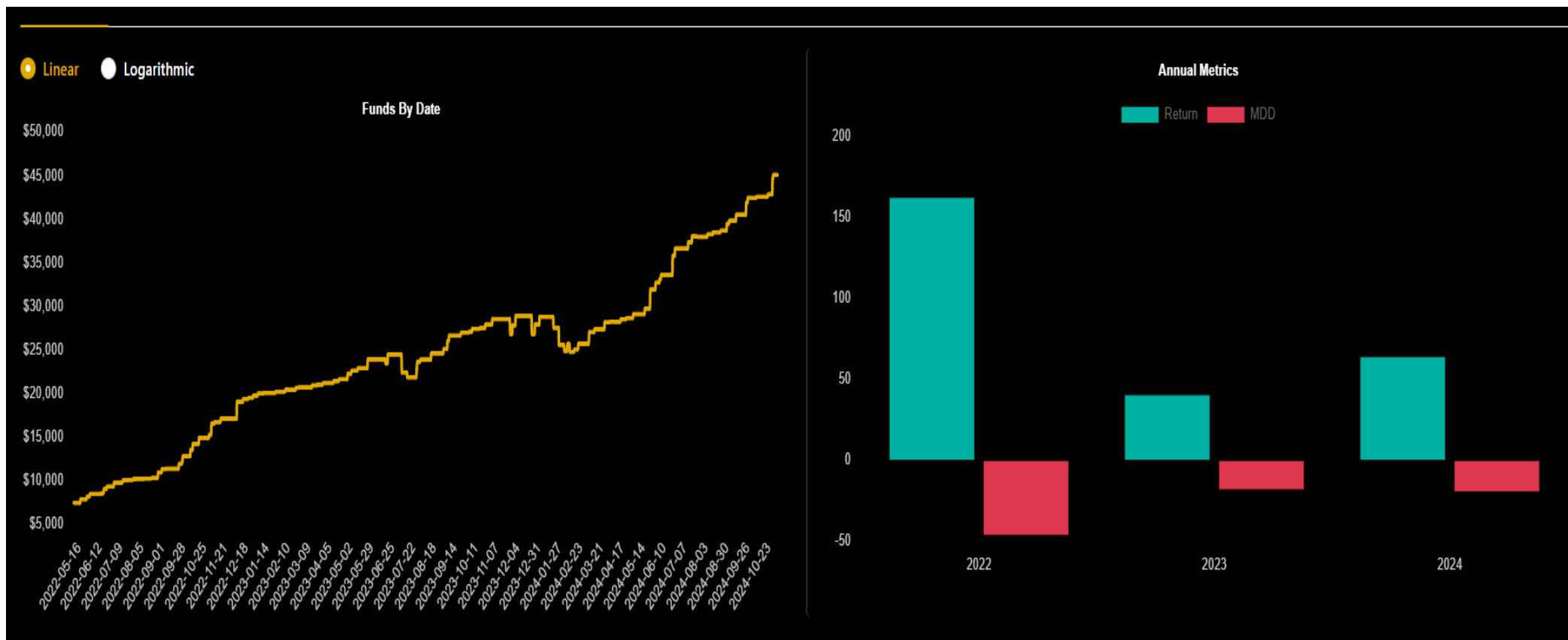
# Examples (Hedging not included)



# Examples



# Examples





# Considerations



- **Transaction Costs:**
  - We are mindful of transaction costs associated with managing every position.
- **Market Conditions:**
  - We Adapt the strategy based on prevailing market conditions and outlook on the underlying asset.
- **Risk-Reward Analysis:**
  - We continuously assess the risk-reward profile of each standing position and the overall portfolio.



# Theta /( Margins + Cost)



| TRADE       | Margin/Cost | Theta | Theta/Margin | B.Even Down`* | B.Even UP | Move | MAX Profit | %Profit |
|-------------|-------------|-------|--------------|---------------|-----------|------|------------|---------|
| STRADDLE    | 98130       | 1045  | 1.06%        | 4731          | 4788      | 57   | 2818       | 2.87%   |
| STRANGLE    | 96605       | 995   | 1.03%        | 4730          | 4789      | 59   | 1985       | 2.05%   |
| D.CALENDAR  | 2540        | 625   | 24.61%       | 4733          | 4790      | 57   | 1365       | 53.74%  |
| CALENDAR    | 1110        | 423   | 38.11%       | 4728          | 4796      | 68   | 1400       | 126.13% |
| BUTTERFLY   | 445         | 164   | 36.85%       | 4744          | 4775      | 31   | 1500       | 337.08% |
| IRON CONDOR | 292         | 100   | 34.25%       | 4738          | 4791      | 53   | 210        | 71.92%  |
| *AT EXPIRY  |             |       |              |               |           |      |            |         |

# PDT Rule



- ♦ The PDT (Pattern Day Trader) rule applies to margin accounts in the U.S. and affects options traders as well. Here are the key points of the PDT rule for options trading:
- **Definition:** A pattern day trader (PDT) is any margin account that executes four or more day trades within five business days, provided that the number of day trades represents more than 6% of the total trading activity in that account for the same five business days.
- **Minimum Equity Requirement:** If flagged as a PDT, your account must maintain a **minimum balance of \$25,000** in equity (cash or eligible securities) at all times. This applies even if you're trading options, not just stocks.
- **Day Trades for Options:** Buying and selling the same options contract within the same day counts as a day trade. This rule applies to buying and selling both calls and puts.
- **Consequences of PDT Violation:** If your account is flagged for PDT and does not meet the minimum equity requirement, your broker may issue a margin call. Until the margin call is met, your account could be restricted to liquidating trades only, meaning you can't open new positions.
- **Cash Accounts:** The PDT rule does not apply to cash accounts. However, in a cash account, you must wait for the funds from your trades to settle before you can use them for new trades, which typically takes one day for options.



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| Date     | View                 | Duration | Views | Presenter | Description   |
|----------|----------------------|----------|-------|-----------|---|
| 8 Dec 24 | <a href="#">View</a> |          | 7     | Tomas B   | Some of the ATM Workshop extra Password:(ATM2025)         |
| 7 Dec 24 | <a href="#">View</a> |          | 6     | Tomas B   | Intro to TRADES : The BUTCAL & Hedge (PASSWORD:ATM2025)   |
| 7 Dec 24 | <a href="#">View</a> |          | 7     | Tomas B   | INTRO to TRADES: BUTCAL in Action 0DTE (PASSWORD:ATM2025) |
| 7 Dec 24 | <a href="#">View</a> |          | 8     | Tomas B   | Harvesting Volatility (PASSWORD:ATM2025)                  |
| 7 Dec 24 | <a href="#">View</a> |          | 6     | Tomas B   | TRADERS Mistakes (PASSWORD:ATM2025)                       |

### March 2024

| Date      | View                 | Duration | Views | Presenter | Description                  |
|-----------|----------------------|----------|-------|-----------|------------------------------|
| 22 Mar 24 | <a href="#">View</a> | 00:00:17 | 51    | Tomas B   | ATM Weekly Options Slingshot |



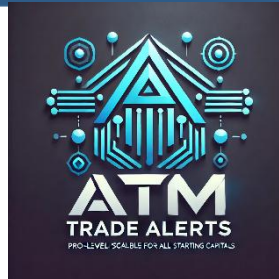
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| Presentation "DERIVATIVES" Understanding options ,forwards and futures.   | 548.0 KB | PDF  | 4 Dec 2024  | <a href="#">Download</a> |
| How SIPC ProtectsYou  | 2.1 MB   | PDF  | 2 Dec 2024  | <a href="#">Download</a> |
| ATM-WEEKLY-TRADE Alerts House Rules   | 278.7 KB | PDF  | 28 Nov 2024 | <a href="#">Download</a> |
| Derivative Spreads  | 558.3 KB | PDF  | 19 Nov 2024 | <a href="#">Download</a> |
| OPTIONSMATRIX LINK<br>Prop Excel to follow your trades.<br>Trial Version With Guide and video(No additional Assistance Provided)                              | 110.3 KB | PDF  | 6 Sep 2024  | <a href="#">Download</a> |
| DATA MINER EXCEL SPREADSHEET (PROJECT)<br>VIDEO LINK.<br>USED TO CREATE THE EXAMPLES Specific TRADES ,  | 78.5 KB  | PDF  | 6 Sep 2024  | <a href="#">Download</a> |
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| B&S Part2(Implied Volatility)                       | 5 Sep 2024 at 5:44:11 AM Eastern  | <a href="#">View</a> |
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| 7 Dec 24 | <a href="#">View</a> |          | 10    | Tomas B   | Intro to Trades: The BUTCAL & hedge (PASSWORD : ATM2025)   |
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| 5 Dec 24 | <a href="#">View</a> |          | 11    | Tomas B   | <b>Hedging a 30-Day Broken Wing Butterfly (The classic way).</b><br><b>Recorded during Zoom Meeting some time ago...</b> |
| 4 Dec 24 | <a href="#">View</a> |          | 6     | Tomas B   | <b>How to Avoid the Pattern Day Trader (PDT) rule trading Option Spreads.</b>  |
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# Snapshot Excel

## OptionsMatrix (proprietary analytical tool)\*

\*Excel Link to TOS Live data



| GIGCL | DTE   | Weighting       | Raw Vega | Weighted Tos Input | SIZE     | Type        | RoITOT    | ROI      | Theta     | P&L        | deltaPos | Gamma     | CODES        | DELTA       | GAMMA    | THETA      | Vegas    | VEGA    | W.VEGA   | EXTRINSIC | INTRINSIC | IMPL_VOL | trdate    |           |     |
|-------|-------|-----------------|----------|--------------------|----------|-------------|-----------|----------|-----------|------------|----------|-----------|--------------|-------------|----------|------------|----------|---------|----------|-----------|-----------|----------|-----------|-----------|-----|
| GIG   | 2.543 | 1.25            | 1362.60  | 1708.96            | 0.30     | 10 2.5 FIX  | -12.16%   |          | #VALUE!   |            |          |           | .SPXW230     | -314.800    | 8.2000   | -3097.40   |          | 1362.60 | 1708.96  | 8850      | 0         | 11.29%   | 31-Jul-23 |           |     |
| GIG   | 1.543 | 1.61            | -1012.50 | -1630.25           | 0.00     | -10 2.65    | -22.37%   | 0.44%    | 6.00%     | 1093.10    | 150      | -31.900   | -1.400       | .SPXW230    | 282.900  | -9.6000    | 4190.50  |         | -1012.50 | -1630.25  | -6200     | 0        | 11.73%    | 31-Jul-23 |     |
| GIG   | 6.543 | 0.78            | 975.44   | 762.68             | 0.19     | 4 15.35 FIX | -14.72%   |          | #VALUE!   |            |          |           | .SPXW230     | 183.160     | 2.6400   | -870.68    |          | 975.44  | 762.68   | 8260      | 0         | 9.72%    | 31-Jul-23 |           |     |
| GIG   | 0.543 | 2.71            | -252.52  | -685.42            | 0.65     | -4 16.35 mk | -22.58%   | 1.16%    | 6.51%     | 849.32     | 400      | 58.680    | -3.920       | .SPXW230    | -124.480 | -6.5600    | 1720.00  |         | -252.52  | -685.42   | -1720     | 0        | 12.06%    | 31-Jul-23 |     |
| GIG   | 6.543 | 0.78            | 1173.90  | 917.86             | 0.19     | 5 11.75 FIX | -12.67%   |          | -46.08    |            |          |           | .SPXW230     | -192.000    | 3.0000   | -834.95    |          | 1173.90 | 917.86   | 8600      | 0         | 10.33%   | 31-Jul-23 |           |     |
| GIG   | 0.543 | 2.71            | -298.10  | -809.14            | 0.65     | -5 13.1     | -19.91%   | 1.96%    | 11.49%    | 1215.10    | 675      | -54.400   | -3.900       | .SPXW230    | 137.600  | -6.9000    | 2050.05  |         | -298.10  | -809.14   | -2050     | 0        | 13.51%    | 31-Jul-23 |     |
| GIG   | 2.543 | 1.25            | 434.49   | 544.93             | 0.30     | 3 3.85 FIX  | -13.83%   |          | #VALUE!   |            |          |           | .SPXW230     | 110.910     | 2.6700   | -1106.31   |          | 434.49  | 544.93   | 3225      | 0         | 11.07%   | 31-Jul-23 |           |     |
| GIG   | 1.543 | 1.61            | -322.35  | -519.02            | 0.39     | -3 4.0      | -24.38%   | 0.09%    | 2.60%     | 246.54     | 30       | 13.980    | -0.660       | .SPXW230    | -96.930  | -3.3300    | 1352.85  | 563.58  | -322.35  | -519.02   | -2040     | 0        | 10.82%    | 31-Jul-23 |     |
| GIG   | 2.543 | 1.25            | 428.70   | 537.67             | 0.30     | 3 2.45 FIX  | 11.15%    |          | 675.50    |            |          |           | .SPXW230     | -106.620    | 2.6100   | -968.25    | 540.84   | 428.70  | 537.67   | 3105      | 0         | 11.15%   | 31-Jul-23 |           |     |
| GIG   | 1.543 | 1.61            | -325.65  | -524.34            | 0.39     | -3 2.8      | 11.59%    | 0.26%    | 12.24%    | 414.72     | 90       | -7.230    | -0.540       | .SPXW230    | 99.390   | -3.1500    | 1382.97  |         | -325.65  | -524.34   | -2280     | 0        | 11.59%    | 31-Jul-23 |     |
| GIG   | 6.543 | 0.78            | 1225.85  | 958.48             | 0.19     | 5 15.14 FIX | 9.74%     |          | 1323.43   |            |          |           | .SPXW230     | 245.600     | 3.3500   | -1107.80   |          | 1225.85 | 958.48   | 11525     | 0         | 9.74%    | 31-Jul-23 |           |     |
| GIG   | 0.543 | 2.71            | -344.35  | -934.68            | 0.65     | -5 17.0     | 12.05%    | 2.71%    | 12.29%    | 1917.20    | 930      | 47.100    | -5.600       | .SPXW230    | -198.500 | -8.9500    | 3025.00  |         | -344.35  | -934.68   | -3025     | 0        | 12.05%    | 31-Jul-23 |     |
| GIG   | 6.543 | 0.78            | 1109.25  | 867.31             | 0.19     | 5 11.01 FIX | 10.47%    |          |           |            |          |           | .SPXW230     | -163.600    | 2.8000   | -809.60    |          | 1109.25 | 867.31   | 6950      | 0         | 10.47%   | 31-Jul-23 |           |     |
| GIG   | 0.543 | 2.71            | -219.85  | -596.74            | 0.65     | -5 11.8     | 13.94%    | 1.08%    | 6.72%     | 264.55     | 370      | -82.150   | -2.150       | .SPXW230    | 81.450   | -4.9500    | 1074.15  |         | -219.85  | -596.74   | -1075     | 0        | 13.94%    | 31-Jul-23 |     |
| GIG   | 6.543 | 0.78            | 4577.60  | 3579.17            | 0.19     | 20 2.45 FIX | 10.41%    |          |           |            |          |           | .SPXW230     | -710.200    | 11.6000  | -3303.60   |          | 4577.60 | 3579.17  | 31000     | 0         | 10.41%   |           |           |     |
| GIG   | 3.543 | 1.06            | -3342.40 | -3551.47           | 0.25     | -20 2.6     | 12.17%    | 0.87%    | 6.12%     | 2377.20    | 300      | -16.200   | -1.800       | .SPXW230    | 694.000  | -13.4000   | 5680.80  |         | -3342.40 | -3551.47  | -25800    | 0        | 12.17%    |           |     |
|       |       |                 |          |                    |          |             |           | 2945.00  |           | 2945       |          |           |              |             |          |            |          |         |          |           |           |          |           |           |     |
|       |       | 4               | 5170.11  | 626.00             |          | #VALUE!     | 13.63 vix | 4588.96  |           | Theta/Del  | #VALUE!  | -0.86%    | delt/thet    | DELTA       | -72.120  | -19.970    | 8377.730 |         | 5170.110 | 626.005   | 37325     | 0.000    |           |           |     |
|       |       |                 |          |                    |          |             |           |          |           | 0 Vega/The | 0.000    | -1.39%    | delta/veg    | -11.52%     |          |            | -435.34  |         | 1551.018 | 187.8052  |           |          |           | Av.Date   | Tod |
|       |       |                 |          |                    | CapTotal | MARGINS FUT | *CapAtRis | CURRENT  | Theta/Cap | #VALUE!    | 110/16   | Thet/Vega |              | DELTA       | GAMMA    | THETA      |          | VEGA    | W.VEGA   | EXTRINSIC | INTRINSIC | IMPL_VOL | 31-Jul-23 | 1/A       |     |
|       |       | Commissions     |          |                    | 0.5      | \$0         | \$0       | \$34,380 | \$34,380  | DayVol/th  | 0.1      |           |              |             |          |            | -5.20%   |         |          |           |           |          |           |           |     |
|       |       | -168 Round trip |          |                    | RISK     |             |           | \$ -     | 8.57%     | DayDel/Th  | -116.2   |           |              |             | -72.120  |            |          |         | 626.005  |           |           |          |           |           |     |
|       |       | \$2,945         |          | P&L                | 8.08%    | \$34,380    |           | ROI      |           | Theta/VEG  | #VALUE!  | -69.54%   | VegaCALRATIO | Hedge(INCL) | #VALUE!  | CALC.THETA |          |         | ex CAL   |           |           |          |           |           |     |
|       |       | \$2,777         | 8.08%    | Net                |          | #DIV/0!     |           | 8.57%    |           | Alpha      |          |           |              |             |          |            |          |         |          |           |           |          | Vega      | W.V       |     |





# Optionsmatrix.



| A            | B              | C      | D      | E           | F       | G          | H           | I      | J        | K             | L      | M        | N        | O      | P            | Q        | R           | S      | T     | U    | V          | W           | X    | Y |
|--------------|----------------|--------|--------|-------------|---------|------------|-------------|--------|----------|---------------|--------|----------|----------|--------|--------------|----------|-------------|--------|-------|------|------------|-------------|------|---|
| 0            | 0              | 0.00   | 0      | 0           | 0       | 0          | 6:38:03 PM  | 0.00   | 0.00     | 0.00          | DTE    | 4350     | Center   | 0      | -6           | 0.0000   | 0           | 60     | 0     | 0    | 3450       | 0           | 0    | 0 |
| 4,352.91     | Underlying     | 0      | 0      | .SPXW230922 | 0       | 0          | 0           | 0      | 0        | First         | 1.14   | .SPXW230 | 0.0000   | 0      | 0            | 0.0000   | 4350        | 0      | 0     | 0    | 3510       | Ref Adj Bas | 0    | 0 |
| 21-Sep-23    | Today's Delta  | 0      | 0      | 230922      | 1.14    | 0          | 0           | 0      | 0        | Second        | 4.14   | .SPXW230 | 0.0000   | 0      | 0            | 0.0000   | 0           | 0      | 0     | 0    | 0          | 0           | 0    |   |
| 21.00%       | Historical Vol | 0      | 0      | 0           | 0       | 0          | PUT Mon Vol | 17.00% | 0.00     | 0.00          | 0.0000 | On FRIDA | 0        | 0      | 0.001378     | 0.0000   | 0           | 0      | 0     | 0    | -60        | 0           | 0    |   |
| 22-Sep-23    | Expiry Date    | 0      | 0.0000 | 0.0000      | 0.0000  | 0.0000     | 0.00        | 0.00   | 0.00     | 0.00          | 0.0000 | 0        | 0        | 0      | 0            | 0.0000   | 0           | 0      | 0     | 0    | 0          | 0           | 0    |   |
| 4.50%        | Risk Free      | 0      | 0      | 0           | 0       | 0          | 0           | 0.00   | 0.00     | 0.00          | 0.0000 | 0        | 0        | 0      | 0            | 0.0000   | 0           | 0      | 0     | 0    | 0          | 0           | 0    |   |
| 0.00%        | Dividend Y     | 0      | 0      | Mk CI Diff  | 0       | 0          | VIX         | 0.00   | 4,352.91 | 0.00          | 0.0000 | 0        | 0        | 0      | 0            | 0.0000   | 0           | 0      | 0     | 0    | 0          | 0           | 0    |   |
| 1            | DTE            | 0      | 0      | 35          | 0       | 4395       | 16.47       | 0      | 0        | 0             | 0      | .SPXW230 | 0        | 0      | 0            | 0.0000   | .SPXW230    | 0      | 0     | 0    | 0          | 0           | 0    |   |
| 0.0031       | DTE in Yr      | 0      | 0      | /ES.XCME    | 4430    | 0          | 1.33        | 0      | 0        | 0             | 0      | 0        | 0        | 0      | 0            | 0.0000   | 0           | 0      | 0     | 0    | 0          | 0           | 0    |   |
| 365          |                | 0      | 0      | SPX         | 4352.91 | 0          | 0           | 0      | 0        | 0             | 0      | 0        | 0        | 0      | 0            | 0.0000   | 0           | 0      | 0     | 0    | 0          | 0           | 0    |   |
| Call Options |                |        |        |             |         |            |             |        |          |               |        |          |          |        |              |          | Put Options |        |       |      |            |             |      |   |
| 0            | Theoretical    | Market | DIFF   | BID         | ASK     | Implied    | IMPL_VOL    | IVBID  | IVASK    | Option Greeks |        |          |          |        |              | 0        | Theoretical | Market | DIFF  | BID  | ASK        | Implied     |      |   |
| Strike Price | Price          | Price  | 0      | 0           | 0       | Volatility | MKVOL       | 0      | 0        | DELTA         | GAMMA  | VEGA     | THETA    | RHO    | Strike Price | Price    | Price       | 0      | 0     | 0    | Volatility |             |      |   |
| 4275         | ITM            | 79.70  | 79.70  | 0.00        | 79.30   | 80.10      | 20.53%      | 20.07% | 18.91%   | 0.9477        | 0.0022 | 0.2610   | -1.6974  | 0.1275 | 0.0000       | 4,275.00 | OTM         | 0.95   | 0.95  | 0.00 | 0.90       | 1.00        | 19.6 |   |
| 4280         | ITM            | 74.90  | 74.90  | 0.00        | 74.50   | 75.30      | 20.16%      | 19.75% | 18.74%   | 0.9388        | 0.0025 | 0.2958   | -1.8976  | 0.1264 | 0.0000       | 4,280.00 | OTM         | 1.10   | 1.10  | 0.00 | 1.05       | 1.15        | 19.1 |   |
| 4285         | ITM            | 70.00  | 70.00  | 0.00        | 69.60   | 70.40      | 19.39%      | 19.00% | 18.08%   | 0.9326        | 0.0028 | 0.3188   | -1.9972  | 0.1257 | 0.0000       | 4,285.00 | OTM         | 1.30   | 1.30  | 0.00 | 1.25       | 1.35        | 18.8 |   |
| 4290         | ITM            | 65.25  | 65.25  | 0.00        | 64.90   | 65.60      | 18.99%      | 18.64% | 17.99%   | 0.9211        | 0.0032 | 0.3594   | -2.2469  | 0.1243 | 0.0000       | 4,290.00 | OTM         | 1.50   | 1.50  | 0.00 | 1.45       | 1.55        | 18.3 |   |
| 4295         | ITM            | 60.55  | 60.55  | 0.00        | 60.20   | 60.90      | 18.60%      | 18.28% | 17.71%   | 0.9077        | 0.0037 | 0.4044   | -2.5464  | 0.1226 | 0.0000       | 4,295.00 | OTM         | 1.82   | 1.83  | 0.00 | 1.80       | 1.85        | 18.0 |   |
| 4300         | ITM            | 55.95  | 55.95  | 0.00        | 55.60   | 56.30      | 18.30%      | 18.02% | 17.52%   | 0.8908        | 0.0042 | 0.4571   | -2.9452  | 0.1204 | 0.0000       | 4,300.00 | OTM         | 2.20   | 2.20  | 0.00 | 2.15       | 2.25        | 17.7 |   |
| 4305         | ITM            | 51.45  | 51.45  | 0.00        | 51.10   | 51.80      | 18.05%      | 17.80% | 17.37%   | 0.8707        | 0.0048 | 0.5150   | -3.4389  | 0.1178 | 0.0000       | 4,305.00 | OTM         | 2.70   | 2.70  | 0.00 | 2.65       | 2.75        | 17.6 |   |
| 4310         | ITM            | 47.00  | 47.00  | 0.00        | 46.60   | 47.40      | 17.73%      | 17.50% | 17.02%   | 0.8486        | 0.0055 | 0.5732   | -3.9817  | 0.1149 | 0.0000       | 4,310.00 | OTM         | 3.30   | 3.30  | 0.00 | 3.20       | 3.40        | 17.4 |   |
| 4315         | ITM            | 42.75  | 42.75  | 0.00        | 42.40   | 43.10      | 17.57%      | 17.36% | 17.02%   | 0.8212        | 0.0062 | 0.6384   | -4.7118  | 0.1113 | 0.0000       | 4,315.00 | OTM         | 4.00   | 4.00  | 0.00 | 3.90       | 4.10        | 17.2 |   |
| 4320         | ITM            | 38.60  | 38.60  | 0.00        | 38.30   | 38.90      | 17.35%      | 17.16% | 16.93%   | 0.7911        | 0.0069 | 0.7020   | -5.5153  | 0.1073 | 0.0000       | 4,320.00 | OTM         | 4.90   | 4.90  | 0.00 | 4.80       | 5.00        | 17.0 |   |
| 4325         | ITM            | 34.70  | 34.70  | 0.00        | 34.30   | 35.10      | 17.28%      | 17.10% | 16.75%   | 0.7556        | 0.0075 | 0.7670   | -6.5113  | 0.1025 | 0.0000       | 4,325.00 | OTM         | 5.90   | 5.90  | 0.00 | 5.80       | 6.00        | 16.9 |   |
| 4330         | ITM            | 30.90  | 30.90  | 0.00        | 30.50   | 31.30      | 17.10%      | 16.93% | 16.61%   | 0.7182        | 0.0082 | 0.8251   | -7.4977  | 0.0975 | 0.0000       | 4,330.00 | OTM         | 7.20   | 7.20  | 0.00 | 7.10       | 7.30        | 16.8 |   |
| 4335         | ITM            | 27.50  | 27.50  | 0.00        | 27.00   | 28.00      | 17.16%      | 17.01% | 16.59%   | 0.6751        | 0.0087 | 0.8793   | -8.6532  | 0.0917 | 0.0000       | 4,335.00 | OTM         | 8.60   | 8.60  | 0.00 | 8.50       | 8.70        | 16.7 |   |
| 4340         | ITM            | 23.95  | 23.95  | 0.00        | 23.80   | 24.10      | 16.83%      | 16.68% | 16.66%   | 0.6329        | 0.0092 | 0.9201   | -9.4202  | 0.0860 | 0.0000       | 4,340.00 | OTM         | 10.20  | 10.20 | 0.00 | 10.10      | 10.30       | 16.6 |   |
| 4345         | ITM            | 20.85  | 20.85  | 0.00        | 20.70   | 21.00      | 16.74%      | 16.60% | 16.58%   | 0.5861        | 0.0096 | 0.9519   | -10.1412 | 0.0797 | 0.0000       | 4,345.00 | OTM         | 12.00  | 12.00 | 0.00 | 11.90      | 12.10       | 16.4 |   |
| 4350         | ITM            | 17.90  | 17.90  | 0.00        | 17.80   | 18.00      | 16.57%      | 16.44% | 16.47%   | 0.5379        | 0.0099 | 0.9703   | -10.4725 | 0.0732 | 0.0000       | 4,350.00 | OTM         | 14.10  | 14.10 | 0.00 | 14.00      | 14.20       | 16.2 |   |
| 4355         | OTM            | 15.25  | 15.25  | 0.00        | 15.10   | 15.40      | 16.46%      | 16.33% | 16.31%   | 0.4881        | 0.0100 | 0.9743   | -10.4252 | 0.0665 | 0.0000       | 4,355.00 | ITM         | 16.45  | 16.45 | 0.00 | 16.30      | 16.60       | 16.1 |   |
| 4360         | OTM            | 12.80  | 12.80  | 0.00        | 12.70   | 12.90      | 16.29%      | 16.18% | 16.19%   | 0.4378        | 0.0100 | 0.9629   | -9.9138  | 0.0596 | 0.0000       | 4,360.00 | ITM         | 19.05  | 19.05 | 0.00 | 18.90      | 19.20       | 16.0 |   |
| 4365         | OTM            | 10.70  | 10.70  | 0.00        | 10.60   | 10.80      | 16.23%      | 16.12% | 16.12%   | 0.3883        | 0.0097 | 0.9363   | -9.1028  | 0.0529 | 0.0000       | 4,365.00 | ITM         | 21.95  | 21.95 | 0.00 | 21.80      | 22.10       | 16.0 |   |
| 4370         | OTM            | 8.80   | 8.80   | 0.00        | 8.70    | 8.90       | 16.12%      | 16.02% | 16.01%   | 0.3398        | 0.0094 | 0.8950   | -8.0005  | 0.0463 | 0.0000       | 4,370.00 | ITM         | 25.05  | 25.05 | 0.00 | 24.90      | 25.20       | 15.8 |   |
| 4375         | OTM            | 7.10   | 7.10   | 0.00        | 7.00    | 7.20       | 15.96%      | 15.86% | 15.84%   | 0.2927        | 0.0089 | 0.8399   | -6.7451  | 0.0399 | 0.0000       | 4,375.00 | ITM         | 28.40  | 28.40 | 0.00 | 28.10      | 28.70       | 15.7 |   |
| 4380         | OTM            | 5.80   | 5.80   | 0.00        | 5.70    | 5.90       | 16.01%      | 15.91% | 15.89%   | 0.2509        | 0.0082 | 0.7779   | -5.6494  | 0.0342 | 0.0000       | 4,380.00 | ITM         | 32.00  | 32.00 | 0.00 | 31.70      | 32.30       | 15.6 |   |
| 4385         | OTM            | 4.65   | 4.65   | 0.00        | 4.60    | 4.70       | 16.00%      | 15.90% | 15.93%   | 0.2118        | 0.0075 | 0.7076   | -4.5897  | 0.0289 | 0.0000       | 4,385.00 | ITM         | 35.85  | 35.85 | 0.00 | 35.60      | 36.10       | 15.6 |   |
| 4390         | OTM            | 3.70   | 3.70   | 0.00        | 3.60    | 3.80       | 16.01%      | 15.91% | 15.85%   | 0.1769        | 0.0067 | 0.6341   | -3.6778  | 0.0241 | 0.0000       | 4,390.00 | ITM         | 39.90  | 39.90 | 0.00 | 39.60      | 40.20       | 15.5 |   |



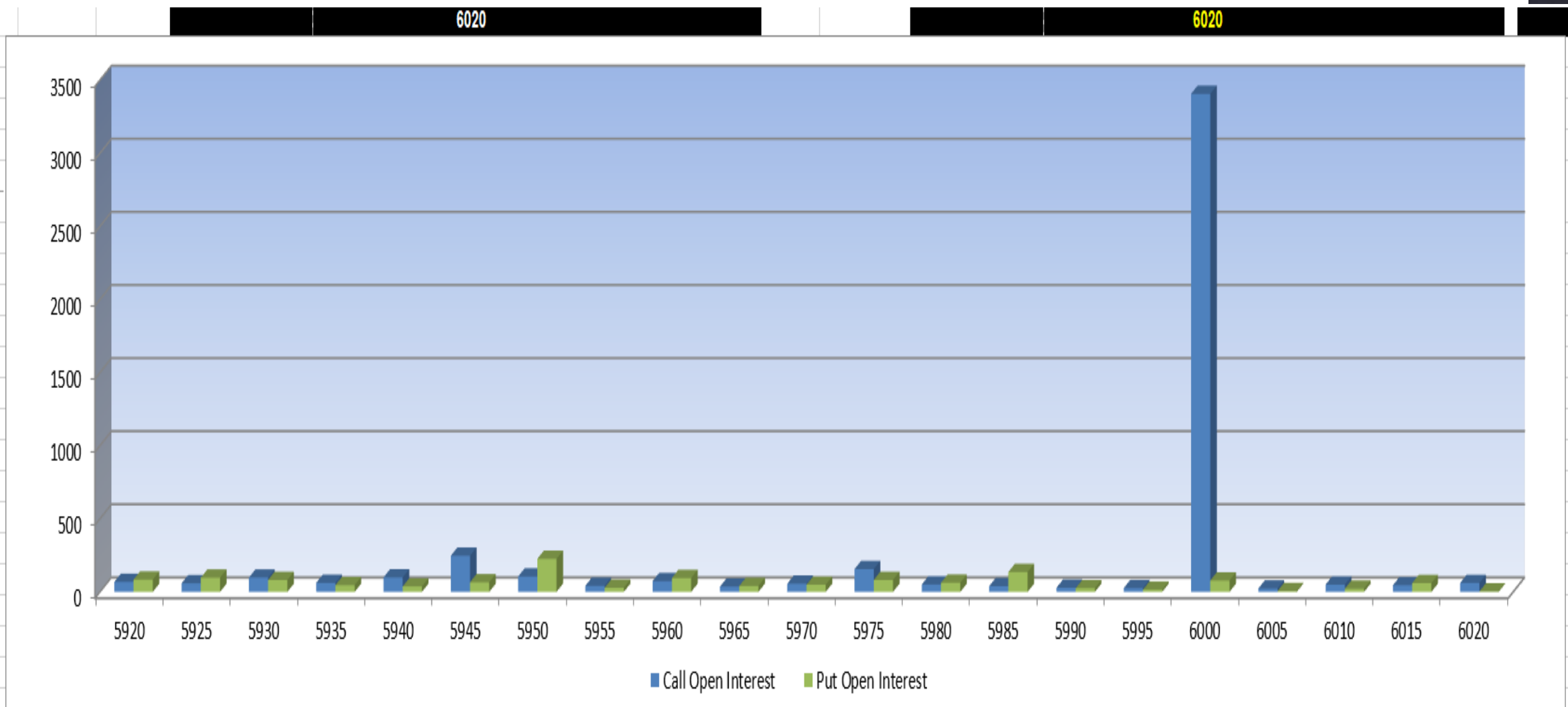
# OPTIONS RADAR.



| Center Strike & Expiration: |  |  |  |  |  |  |  |  |  |  |  |  |  |  | SPX DELTA Matrix   |  |  |  |  |  |  |  |  |  |  |  |  | SPX VEGA Matrix    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 0                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1                  |  |  |  |  |  |  |  |  |  |  |  |  | 2                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  | 5                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  | 10                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  | 25                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike IV / ATM IV          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  | Strike IV / ATM IV |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Call IV                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  | Call IV            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| C Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  | C Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Strike                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  | Strike             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P Price                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  | P Price            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Delta                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  | Delta              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Vega                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  | Vega               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extrinsic                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  | Extrinsic          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Put IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  | Put IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ATM IV                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  | ATM IV             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  | x4                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x1                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  | x1                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x2                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  | x2                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x3                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  | x3                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| x4                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



OPTIONS RADAR.



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# OPTIONS RADAR.



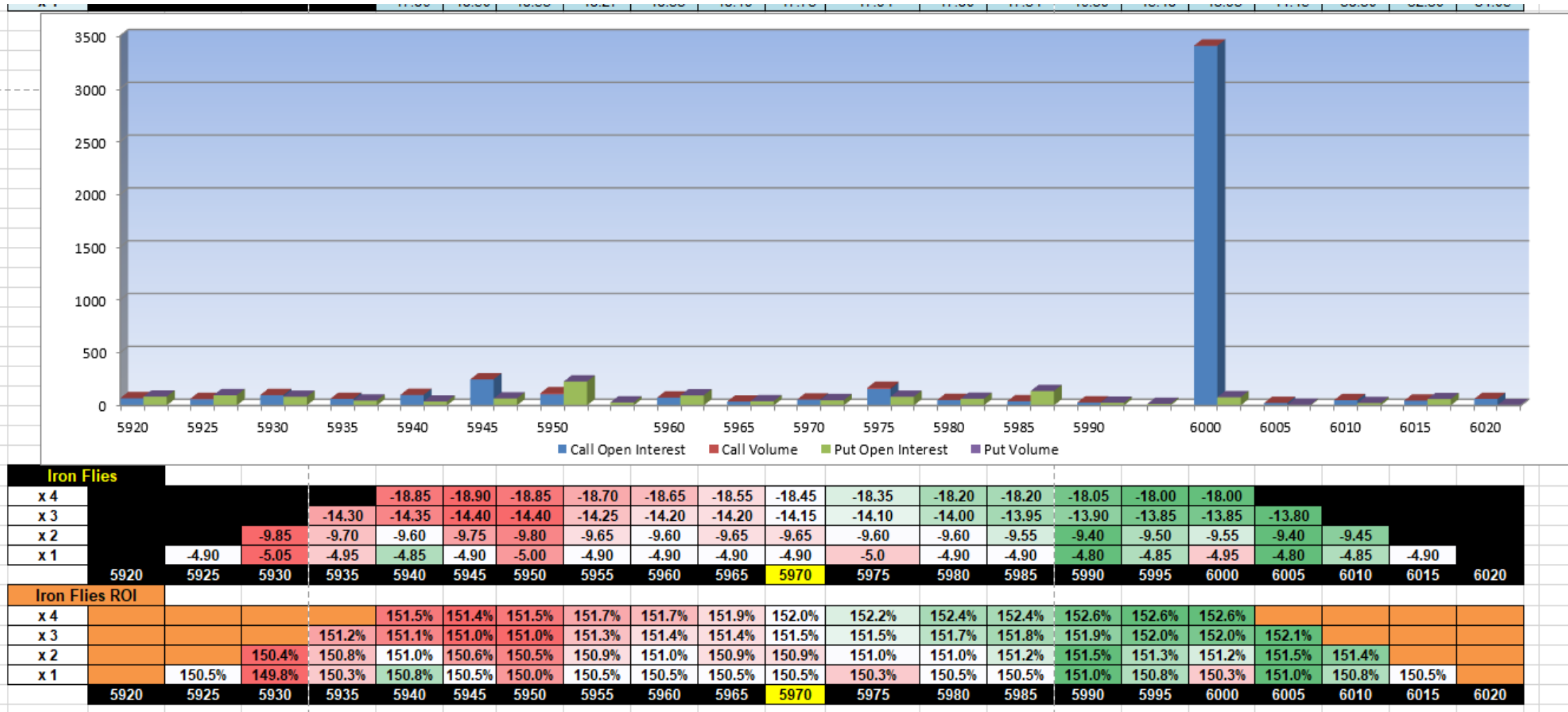
| CALL Price | 5920   | 5925   | 5930   | 5935      | 5940   | 5945   | 5950   | 5955   | 5960   | 5965   | 5970   | 5975   | 5980   | 5985   | 5990   | 5995   | 6000   | 6005   | 6010   | 6015   | 6020   |
|------------|--------|--------|--------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Call Delta | 0.643  | 0.634  | 0.624  | 0.613     | 0.602  | 0.590  | 0.578  | 0.565  | 0.551  | 0.537  | 0.522  | 0.507  | 0.491  | 0.475  | 0.458  | 0.440  | 0.422  | 0.404  | 0.385  | 0.366  | 0.347  |
| x 1        | 4.25   | 4.20   | 4.45   | 4.10      | 3.70   | 3.95   | 4.00   | 3.75   | 3.70   | 3.60   | 3.50   | 3.40   | 3.25   | 3.20   | 3.05   | 2.95   | 2.80   | 2.65   | 2.55   | 2.40   |        |
| x 2        | 8.45   | 8.65   | 8.55   | 7.80      | 7.65   | 7.95   | 7.75   | 7.45   | 7.30   | 7.10   | 6.90   | 6.65   | 6.45   | 6.25   | 6.00   | 5.75   | 5.45   | 5.20   | 4.95   |        |        |
| x 3        | 12.90  | 12.75  | 12.25  | 11.75     | 11.65  | 11.70  | 11.45  | 11.05  | 10.80  | 10.50  | 10.15  | 9.85   | 9.50   | 9.20   | 8.80   | 8.40   | 8.00   | 7.60   |        |        |        |
| x 4        | 17.00  | 16.45  | 16.20  | Back Wall | 5.40   | 15.40  | 15.05  | 14.55  | 14.20  | 13.75  | 13.35  | 12.90  | 12.45  | 12.00  | 11.45  | 10.95  | 10.40  |        |        |        |        |
| CALL Delta | 5920   | 5925   | 5930   | 5935      | 5940   | 5945   | 5950   | 5955   | 5960   | 5965   | 5970   | 5975   | 5980   | 5985   | 5990   | 5995   | 6000   | 6005   | 6010   | 6015   | 6020   |
| x 1        | 0.01   | 0.01   | 0.01   | 0.01      | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.01   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   | 0.02   |        |
| x 2        | 0.02   | 0.02   | 0.02   | 0.02      | 0.02   | 0.03   | 0.03   | 0.03   | 0.03   | 0.03   | 0.03   | 0.03   | 0.03   | 0.03   | 0.04   | 0.04   | 0.04   | 0.04   | 0.04   |        |        |
| x 3        | 0.03   | 0.03   | 0.03   | 0.04      | 0.04   | 0.04   | 0.04   | 0.04   | 0.04   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.05   | 0.06   | 0.06   |        |        |        |
| x 4        | 0.04   | 0.04   | 0.05   | 0.05      | 0.05   | 0.05   | 0.06   | 0.06   | 0.06   | 0.06   | 0.06   | 0.07   | 0.07   | 0.07   | 0.07   | 0.07   | 0.08   |        |        |        |        |
| CALL Price | 5920   | 5925   | 5930   | 5935      | 5940   | 5945   | 5950   | 5955   | 5960   | 5965   | 5970   | 5975   | 5980   | 5985   | 5990   | 5995   | 6000   | 6005   | 6010   | 6015   | 6020   |
| Per Delta  | 438.14 | 411.76 | 436.27 | 366.07    | 300.81 | 321.14 | 312.50 | 275.74 | 262.41 | 243.24 | 228.76 | 213.84 | 196.97 | 188.24 | 174.29 | 163.89 | 153.01 | 142.47 | 134.21 | 125.65 |        |
| x 1        | 424.62 | 424.02 | 399.53 | 331.91    | 310.98 | 316.73 | 293.56 | 268.95 | 252.60 | 235.88 | 221.15 | 205.25 | 192.54 | 181.16 | 169.01 | 158.40 | 147.70 | 138.30 | 129.92 |        |        |
| x 2        | 428.57 | 403.48 | 363.50 | 328.21    | 311.50 | 302.33 | 282.72 | 260.00 | 244.34 | 228.26 | 212.79 | 199.39 | 186.27 | 175.24 | 163.57 | 153.01 | 143.11 | 134.04 |        |        |        |
| x 4        | 411.62 | 374.72 | 352.17 | 324.07    | 301.96 | 291.67 | 272.15 | 251.73 | 236.27 | 220.00 | 206.34 | 192.83 | 180.43 | 169.49 | 158.15 | 148.17 | 138.67 |        |        |        |        |
| PUT Price  | 5920   | 5925   | 5930   | 5935      | 5940   | 5945   | 5950   | 5955   | 5960   | 5965   | 5970   | 5975   | 5980   | 5985   | 5990   | 5995   | 6000   | 6005   | 6010   | 6015   | 6020   |
| Put Delta  | -0.249 | -0.264 | -0.281 | -0.298    | -0.317 | -0.337 | -0.359 | -0.382 | -0.407 | -0.433 | -0.462 | -0.493 | -0.526 | -0.562 | -0.601 | -0.644 | -0.692 | -0.748 | -0.813 | -0.904 | -1.000 |
| x 1        |        | 0.75   | 0.80   | 0.85      | 0.95   | 0.95   | 1.10   | 1.10   | 1.25   | 1.30   | 1.40   | 1.45   | 1.65   | 1.70   | 1.80   | 1.90   | 2.10   | 2.15   | 2.35   | 2.45   | 2.60   |
| x 2        |        |        | 1.55   | 1.65      | 1.80   | 1.90   | 2.05   | 2.20   | 2.35   | 2.55   | 2.70   | 2.85   | 3.10   | 3.35   | 3.50   | 3.70   | 4.00   | 4.25   | 2.35   | 4.80   | 5.05   |
| x 3        |        |        |        | 2.40      | 2.60   | 2.75   | 3.00   | 3.15   | 3.45   | 3.65   | 3.95   | 4.15   | 4.50   | 4.80   | 5.15   | 5.40   | 5.80   | 6.15   | 6.60   | 6.95   | 7.40   |
| x 4        |        |        |        |           | 3.35   | 3.55   | 3.85   | 4.10   | 4.40   | 4.75   | 5.05   | 5.40   | 5.80   | 6.20   | 6.60   | 7.05   | 7.50   | 7.95   | 8.50   | 9.05   | 9.55   |
| PUT Delta  | 5920   | 5925   | 5930   | 5935      | 5940   | 5945   | 5950   | 5955   | 5960   | 5965   | 5970   | 5975   | 5980   | 5985   | 5990   | 5995   | 6000   | 6005   | 6010   | 6015   | 6020   |
| x 1        |        | -0.02  | -0.02  | -0.02     | -0.02  | -0.02  | -0.02  | -0.02  | -0.02  | -0.03  | -0.03  | -0.03  | -0.03  | -0.04  | -0.04  | -0.04  | -0.05  | -0.06  | -0.07  | -0.09  | -0.10  |
| x 2        |        |        | -0.03  | -0.03     | -0.04  | -0.04  | -0.04  | -0.04  | -0.05  | -0.05  | -0.06  | -0.06  | -0.06  | -0.07  | -0.08  | -0.08  | -0.09  | -0.10  | -0.10  | -0.16  | -0.19  |
| x 3        |        |        |        | -0.05     | -0.05  | -0.06  | -0.06  | -0.06  | -0.07  | -0.07  | -0.08  | -0.09  | -0.09  | -0.10  | -0.11  | -0.12  | -0.13  | -0.15  | -0.17  | -0.21  | -0.25  |
| x 4        |        |        |        |           | -0.07  | -0.07  | -0.08  | -0.08  | -0.09  | -0.10  | -0.10  | -0.11  | -0.12  | -0.13  | -0.14  | -0.15  | -0.17  | -0.19  | -0.21  | -0.26  | -0.31  |
| PUT Price  | 5920   | 5925   | 5930   | 5935      | 5940   | 5945   | 5950   | 5955   | 5960   | 5965   | 5970   | 5975   | 5980   | 5985   | 5990   | 5995   | 6000   | 6005   | 6010   | 6015   | 6020   |
| Per Delta  |        | -48.70 | -48.78 | -48.57    | -50.00 | -47.74 | -50.46 | -47.83 | -50.20 | -48.87 | -48.95 | -47.23 | -49.70 | -47.35 | -45.92 | -43.88 | -43.93 | -38.67 | -35.66 | -26.98 | -27.14 |
| x 1        |        |        | -48.74 | -48.67    | -49.32 | -48.84 | -49.16 | -49.11 | -49.06 | -49.51 | -48.91 | -48.06 | -48.51 | -48.48 | -46.60 | -44.85 | -43.91 | -41.10 | -35.66 | -30.63 | -27.06 |
| x 2        |        |        |        | -48.68    | -49.15 | -48.76 | -49.42 | -48.69 | -49.50 | -48.99 | -49.31 | -48.31 | -48.65 | -48.10 | -47.55 | -45.61 | -44.51 | -41.92 | -38.98 | -32.74 | -29.31 |
| x 4        |        |        |        |           | -49.05 | -48.76 | -49.23 | -48.98 | -49.11 | -49.33 | -48.98 | -48.74 | -48.70 | -48.29 | -47.48 | -46.50 | -45.13 | -42.76 | -39.98 | -34.79 | -31.00 |



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# OPTIONS RADAR.





# BASKET ORDER TRADER



|    |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
|----|-------------|-------------|-------|---|------------|-----------|----------|---------|----------|---------|------|-------|--------|-----------|------|-------|--------|-----------|------|-------|--------|-----------|------|-------|--------|-----------|----|
|    | A           | B           | C     | D   | E          | F         | G        | H       | I        | J       | K    | L     | M      | N         | O    | P     | Q      | R         | S    | T     | U      | V         | W    | X     | Y      | Z         | AA |
| 1  |             |             |       | *Note - Use this as cheat sheet to center strikes |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 2  |             |             |       | Input   | Call       | Puts      |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 3  |             |             |       | 51  | 5150       | 5130      |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 4  | Symbol      | SPX         |       |   | 5145       | 5125      |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 5  | SecType     | BAG         |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 6  | Exchange    | SMART/SMART |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 7  | Currency    | USD         |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 8  | TimeInForce | DAY         |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 9  | OrderType   | LMT         |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 10 | BasketTag   | OptTrader   |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 11 | Account     | US555555    |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 12 | OrderRef    | OptTrader   |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 13 | Rth         | TRUE        |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 14 | Type        | OPT         |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 15 |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 16 |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 17 |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 18 |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 19 |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 20 |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 21 |             |             |       |   |            |           |          |         |          |         |      |       |        |           |      |       |        |           |      |       |        |           |      |       |        |           |    |
| 22 |             |             |       | Term Structure                                    |            | Side 1    |          | Side 2  |          | Leg 1   |      |       |        | Leg 2     |      |       |        | Leg 3     |      |       |        | Leg 4     |      |       |        |           |    |
| 23 | Strategy    | Qty         | Price | Side  | Front Date | Back Date | Strike 1 | Width 1 | Strike 2 | Width 2 | Side | Ratio | Strike | Expr      | Side | Ratio | Strike | Expr      | Side | Ratio | Strike | Expr      | Side | Ratio | Strike | Expr      |    |
| 24 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 25 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 26 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 27 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 28 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 29 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 30 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 31 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 32 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 33 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 34 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 35 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 36 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 37 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 38 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 39 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 40 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 41 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |
| 42 | Iron Double | 1           | 0.00  |   | 3/21/2024  | 3/25/2024 |          | 0       |          | 0       | CALL | -1    | 0      | 3/21/2024 | CALL | 1     |        | 3/25/2024 | PUT  | -1    |        | 3/21/2024 | PUT  | 1     | 0      | 3/25/2024 |    |





# The deal!



➤ Baseline 500\$ **450\$(-10%)**

✦ **\*-10% One Year Anniversary.**

✦ (Ends March 4<sup>th</sup> 2025)



# The deal!

- Baseline : 550\$ X One Q. \* **522 (-5%)**
- ✦ Full Year 2200\$ \* **1,870 (-15%)**
- ✦ **\*One Year Anniversary.**
- ✦ **One Quarter -5%**
- ✦ **Full Year -15%**

(Ends March 4<sup>th</sup> 2025)

- ✦ Regular price at the end of Service period.



# The deal!

➤ Baseline : 375\$ For One Quarter

✦ Full Year : 1500\$ **-10% 1350\***

✦ **\*Special 1350\$ One Year !**

(Ends March 4<sup>th</sup> 2025)



**@ Special Saving 150!**





# Presentation Link



PDF Presentation LINK :



# ✦ Tomas Byron's Workshop and Trade Alerts



- ✦ *ATM Weekly Options Strategy* **Workshop**
- ✦ *ATM Weekly Options Strategy* **Trade Alerts**
- ✦ <https://info.aeromir.com/workshops/2024/atm/>
  
- ✦ *Elephant Shield* **Trade Alerts**
- ✦ <https://info.aeromir.com/services/elephantshield/>

## Trade Alerts Are For Educational Purposes Only

The purpose of the ATM Weekly Option Strategy Trade Alerts is to provide information how Tomas trades. The trade examples are live trades at either Interactive Brokers or thinkorswim using Reg-T or SPAN margin. They are intended to be examples for you get ideas for your own trades.





# Questions?



thank you for taking the time to attend the presentation.

Tomas